INSTALLATION RESTORATION PROGRAM (IRP) SITE INVESTIGATION

VOLUME II APPENDICES A-E

254th COMBAT COMMUNICATIONS GROUP and
221st COMBAT COMMUNICATIONS SQUADRON
TEXAS AIR NATIONAL GUARD
GARLAND AIR NATIONAL GUARD STATION
GARLAND, TEXAS

APRIL 1995



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13. ABSTRACT *(Maximum 200 words)*
Site Investigation Report, Volume II, Appendices A through E
A Site Investigation was performed at one site at the 254th Combat Communication Group and the 221st Combat Communication Squadron, Garland, Texas. The site investigated was the Station Drainage Area and Fence Line (referred to as Site 1). All contamination identified at the site was below State cleanup levels.

The report recommended no further action for the site.

Volume II of this report consist of the following Appendices: Boring Logs, Key to Terms and Symbols, Well Reports, Survey Data (Appendix A), Field GC Results (Appendix B), Summary of Analytical Results, Reports of Analyses, Chain-of-Custody Forms, Data Validation (Appendix C), HRS Data Package (Appendix D), Field Notebooks, Field Boring Logs, Daily Field Reports (Appendix E).

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Unclassified	Unclassified	Unclassified	none

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C	- Contract	**PR**	- Project
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INSTALLATION RESTORATION PROGRAM (IRP) SITE INVESTIGATION

VOLUME II APPENDICES A-E

254th Combat Communications Group and
221st Combat Communications Squadron
TEXAS AIR NATIONAL GUARD
GARLAND AIR NATIONAL GUARD STATION
GARLAND, TEXAS

APRIL 1995

Prepared For

NATIONAL GUARD BUREAU
ANDREWS AFB, MARYLAND

Prepared By

Operational Technologies Corporation
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253
(210) 731-0000

1315-109

APPENDIX A

BORING LOGS
KEY TO TERMS AND SYMBOLS
WELL REPORTS
SURVEY DATA

KEY TO BORING LOG SYMBOLS

UNIFIED SOIL CLASSIFICATION SYSTEM – ASTM D2487

MAJOR DIVISIONS			SYMBOL/ GRAPHIC	DESCRIPTIONS
COARSE-GRAINED SOILS (>50% Smaller Than #200 Sieve)	GRAVELS (More than 50% of coarse fraction is larger than the #4 sieve size.)	Clean gravels with little or no fines	GW	Well-Graded Gravels, Gravel – Sand Mixtures
			GP	Poorly Graded Gravels, Gravels – Sand Mixtures
		Gravels with over 12% fines	GM	Silty Gravels, Poorly Graded Gravel-Sand-Clay Mixtures
			GC	Clayey Gravels, Poorly Graded Gravel-Sand-Clay Mixtures
	SANDS (More than 50% of coarse fraction is smaller than the #4 sieve size.)	Clean sands with little or no fines	SW	Well-Graded Sands, Gravelly Sands
			SP	Poorly Graded Sands, Gravelly Sands
		Sands with over 12% fines	SM	Silty Sands, Poorly Graded Sand-Silt Mixtures
			SC	Clayey Sands, Poorly Graded Sand-Clay Mixtures
FINE-GRAINED SOILS (>50% Smaller Than #200 Sieve)	SILTS AND CLAYS (Liquid limit less than 50)		ML	Inorganic Silts and Very Fine Sands, Silty or Clayey Fine Sands
			CL	Inorganic Clays of Low to Medium Plasticity: Gravelly, Sandy or Silty Clays; Lean Clays
			OL	Organic Clays and Organic Silty Clays of Low Plasticity
	SILTS AND CLAYS (Liquid limit greater than 50)		MH	Inorganic Silts, Micaceous or Diatomacious Fine Sandy or Silty Soils, Elastic Silts
			CH	Inorganic Clays of High Plasticity Fat Clays
			OH	Organic Clays of Medium to High Plasticity, Organic Silts
HIGHLY ORGANIC SOILS			Pt	Peat and Other Highly Organic Soils

Shaded interval represents soil sample.
Blackened interval indicates portion of sample prepared for laboratory analysis.

▼ Water Table Level

PID Photo-Ionization Detector readings (ppm)

	Asphaltic Concrete
	Portland Cement Concrete
	Cement Grout
	Austin Chalk

FIGURE C.1

KEY TO BORING LOG

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R\KEYLOG

1994

Log of Boring BG-001BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 19, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 559.3
0	3/3 5/5	0			75	Sand, loose, orange-like brown, wet from 0 to 1.5 feet.
						Clay, soft, dark brownish gray, dry from 1.5 to 2.0 feet.
	4/6 8/12	0			85	Clay, soft, dark brownish gray, dry firm from 4 to 5 feet.
5						
	12/40 50-1.5"	0			100	Marl, hard, white, dry.
						Boring Terminated at 8 ft.
10						
15						

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State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas , _____ miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** BG-001BH
Date Drilling: Started 1-19 1994 Completed 1-19 1994

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0 -	1.5'	Orangeish Br sand
1.5' -	6'	Dr brown clay
6' -	8'	White chalk

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☒ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-19-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) WELL DRILLER'S LICENSE NO. 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi (City) TX (State) 78427-0778 (Zip)

(Signed) Kim L. Wakefield (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring BG-002BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 19, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 558.5
0	2/3 5/7	0			75	Clay, soft, dark brownish gray, dry.
	3/4 5/7	0			75	Clay, soft, dark brownish gray, moist.
5	5/30 50-1"	0			50	Clay, stiff, white, dry from 6 to 7 feet. Marl, hard, white, dry from 7 to 8 feet.
						Boring Terminated at 8 ft.
10						
15						

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CORPORATION

JUNE 1994
R\GARLAND\BG-002BH

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State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):**
☐ Driven ☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** BG-002BH
Date Drilling: Started 1-19 1994 Completed 1-19 1994

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	5'	Dr Br clay
5'	8'	White chalk

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-19-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) **WELL DRILLER'S LICENSE NO.** 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi (City) TX (State) 78427-0778 (Zip)

(Signed) Kim D. Wakefield (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-001BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 18, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 557.29
0		0			30	Asphalt and base.
						Clay, firm, black, dry.
	5/10	0			75	Clay, firm, brown, dry from 3.5 to 4.5 feet.
	16/12					
5						Clay, firm, mottled yellow to white from 4.5 to 5.5 feet.
	19/26	10			100	Marl, hard, white, dry.
	50/4.5"					
						Boring Terminated at 8 ft.
10						
15						

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State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas ____ miles in ____ (NE, SW, etc.) direction from ____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. ____ Block No. ____ Township ____ Abstract No. ____ Survey Name ____
Distance and direction from two intersecting section or survey lines ____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool XX Other HSA

6) **WELL LOG:** 01-001BH
Date Drilling: Started 1-18 1994 Completed 1-18 1994

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from ____ ft. to ____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0 -	1'	Asphalt & Base
1' -	3.5'	Black clay
3.5' -	5.5'	Br clay
5.5' -	8'	White chalk

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
____ ft. to ____ ft. No. of Sacks Used ____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-18-94
Artesian flow ____ gpm. Date ____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other ____
Depth to pump bowls, cylinder, jet, etc., ____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: ____ gpm with ____ ft. drawdown after ____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes XX No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? ____ Depth of strata ____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Enivr. Drilling, Inc. (Type or print) **WELL DRILLER'S LICENSE NO.** 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi, TX 78427-0778 (City) (State) (Zip)

(Signed) Kim H. Wakefield (Licensed Well Driller) (Signed) ____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. ____ Located on map ____

TWC-0199 (Rev. 05-18-90)

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Log of Boring 01-002BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 19, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 557.0'
0	2/6 8/9	0			25	Clay, soft, black, dry, with roots and widely scattered caliche.
	5/6 10/13	0			75	Clay, soft, brown, dry from 3 to 4 feet firm, light brown, dry, with widely scattered caliche from 4 to 5 feet.
5	3/5 15/49	0			95	Marl, hard, white, dry.
						Boring Terminated at 8 ft.
10						
15						

OPTECH
OPERATIONAL TECHNOLOGIES
CORPORATION
JUNE 1994
R\GARLAND\01-002BH

Send original copy by certified mail to: **Texas Water Commission, P.O. Box 13087, Austin, TX 78711-3087** *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas _____ miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** 01-002BH
Date Drilling:
Started 1-18 19 94
Completed 1-18 19 94

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0 -	3'	Black clay
3' -	6'	Br clay
6' -	8'	White chalk

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-18-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) **WELL DRILLER'S LICENSE NO.** 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi (City) TX (State) 78427-0778 (Zip)

(Signed) Kim L. Wakefield (Licensed Well Driller)

(Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-003BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 19, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 556.9'
0						
	3/6 7/8	0			75	Clay, soft, dark brownish gray, dry.
5						Clay, soft, light brownish gray, moist.
	4/6 8/8	0			100	Clay, soft, light tan, dry.
						Boring Terminated at 8 ft.
10						
15						

OPTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

JUNE 1994
R\GARLAND\01-003BH

Send original copy by certified mail to: **Texas Water Commission, P.O. Box 13087, Austin, TX 78711-3087** *Please use black ink.*

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State of Texas WELL REPORT Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas, _____ miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):**
☐ Driven ☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** 01-003BH
Date Drilling: Started 1-19 19 94 Completed 1-19 19 94

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed ☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	5'	Dr brown clay
5'	8'	Lt brown clay

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

(Use reverse side if necessary)

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-19-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) **WELL DRILLER'S LICENSE NO.** 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus christi, TX 78427-0778 (City) (State) (Zip)

(Signed) Kim D. Wakefield (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

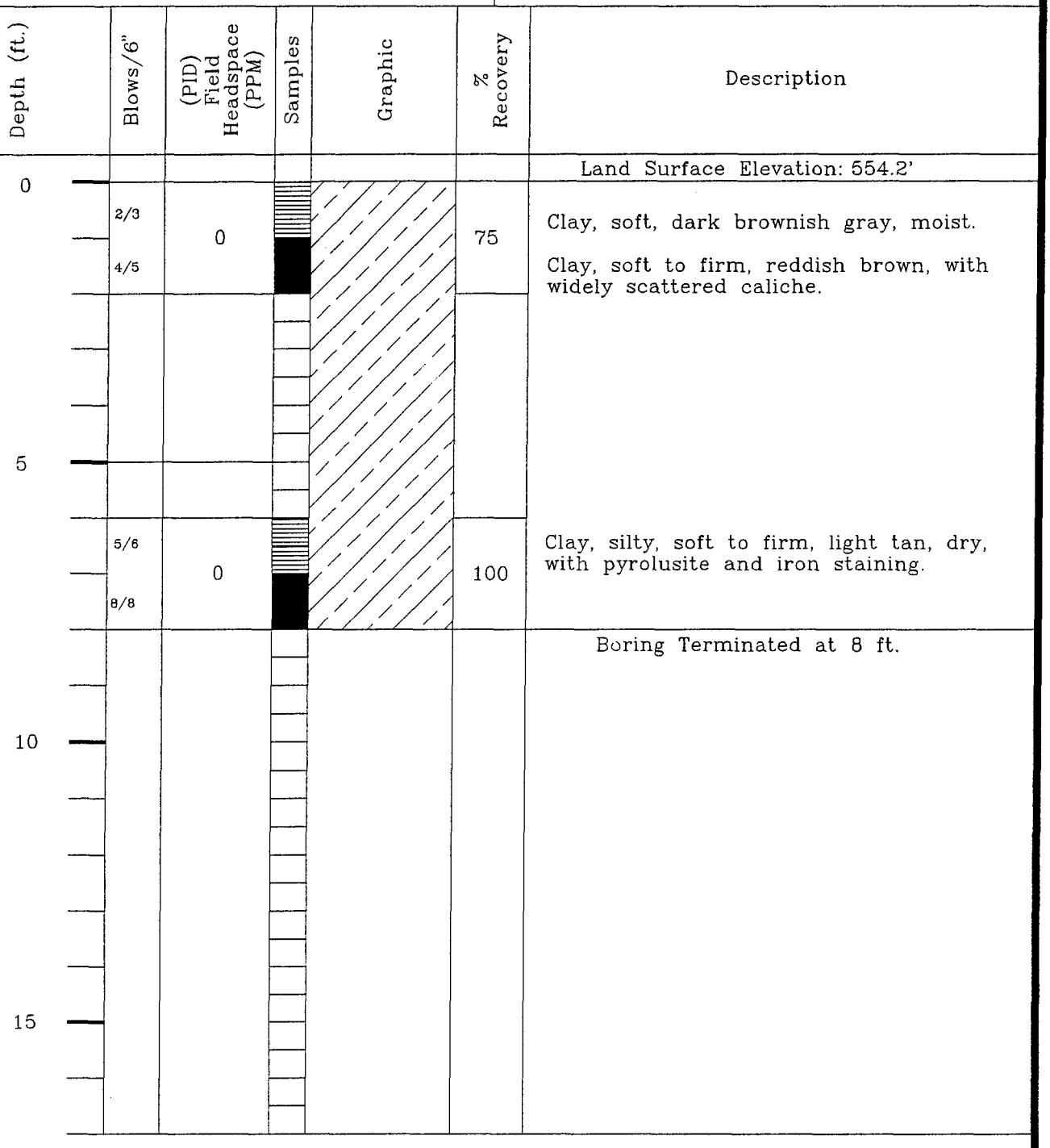
TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-004BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109	Date Drilled: January 19, 1994
Logged By: Phyllis Primrose	Drilling Method: Hollow Stem Auger
Drilling Co.: Jones Environmental Drilling, Inc.	Sampling Method: California Style Sampler
Driller: Kim H. Wakefield	Inclination: Vertical



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State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas ; _____ miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** 01-004BH
Date Drilling: Started 1-19 1994 Completed 1-19 1994

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.) To (ft.) Description and color of formation material

0 - 1' Dr brown clay
1' - 6' Reddish br clay
6' - 8' Lt tan clay

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-19-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) **WELL DRILLER'S LICENSE NO.** 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi, TX 78427-0778 (City) (State) (Zip)

(Signed) Kevin D. Wakefield (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-005BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 20, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 553.7'
0	2/3 4/6	0			50	Clay, soft, reddish brown, moist.
5	4/4 4/5	0			100	Clay, soft, tannish yellow, moist.
						Boring Terminated at 8 ft.
10						
15						

OPTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

JUNE 1994
R\GARLAND\01-005BH

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State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas , ____ miles in ____ (NE, SW, etc.) direction from ____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. ____ Block No. ____ Township ____ Abstract No. ____ Survey Name ____
Distance and direction from two intersecting section or survey lines ____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** 01-005BH
Date Drilling: Started 1-20 1994 Completed 1-20 1994

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from ____ ft. to ____ ft.

From (ft.) To (ft.) Description and color of formation material

0 - 2' Reddish Br clay
2' - 8' Tanish yellow clay

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
____ ft. to ____ ft. No. of Sacks Used ____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-20-94
Artesian flow ____ gpm. Date ____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other ____
Depth to pump bowls, cylinder, jet, etc., ____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: ____ gpm with ____ ft. drawdown after ____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? ____ Depth of strata ____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

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(Signed) Kevin D. Wakefield (Licensed Well Driller) (Signed) ____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. ____ Located on map ____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-006BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109	Date Drilled: January 19, 1994
Logged By: Phyllis Primrose	Drilling Method: Hollow Stem Auger
Drilling Co.: Jones Environmental Drilling, Inc.	Sampling Method: California Style Sampler
Driller: Kim H. Wakefield	Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 554.2'
0						
	3/8	0			50	Clay, soft to firm, reddish brown, dry, with widely scattered caliche.
	10/12				50	
5						
	6/8	0			75	Clay, silty, soft to firm, light tan, dry, with pyrolusite and iron staining.
	9/10					
						Boring Terminated at 8 ft.
10						
15						

OPTECH
OPERATIONAL TECHNOLOGIES
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Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

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County Dallas miles in (NE, SW, etc.) direction from (Town)

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☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** 01-006BH
Date Drilling:
Started 1-19 1994
Completed 1-19 1994

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	1'	Brown clay
1'	6'	Reddish br clay
6'	8'	Lt Tan silty clay

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-19-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

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(Signed) Kim D. Wehrfritz (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-007BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 19, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 551.6'
0						Clay, soft, dark brown gray, dry from 1 to 2.5 feet.
	4/8	0			75	Clay, firm, mottled tan and light brown, dry from 2.5 to 3.0 feet.
	11/14					
5						
	8/13	0			100	Sand, slightly clayey, light tan, very fine-grained, moist from 6 to 7 feet.
	13/17					Clay, very gravelly, firm, light tan, wet from 7 to 8 feet.
						Boring Terminated at 8 ft.
10						
15						

OPTECH
OPERATIONAL TECHNOLOGIES
CORPORATION
JUNE 1994
R\GARLAND\01-007BH

Send original copy by certified mail to: **Texas Water Commission, P.O. Box 13087, Austin, TX 78711-3087** *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas ____ miles in ____ (NE, SW, etc.) direction from ____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. ____ Block No. ____ Township ____ Abstract No. ____ Survey Name ____
Distance and direction from two intersecting section or survey lines ____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool XX Other HSA

6) **WELL LOG:** 01-007BH
Date Drilling: Started 1-19 1994 Completed 1-19 1994

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from ____ ft. to ____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0 -	1'	Dr Br clay
1' -	6'	Tan clay
6' -	7'	Clayey sand lt tan
7' -	8'	Gravely clay lt tan

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

(Use reverse side if necessary)

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
____ ft. to ____ ft. No. of Sacks Used ____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-19-94
Artesian flow ____ gpm. Date ____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other ____
Depth to pump bowls, cylinder, jet, etc., ____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: ____ gpm with ____ ft. drawdown after ____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? ____ Depth of strata ____
Was a chemical analysis made? ☐ Yes XX No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) **WELL DRILLER'S LICENSE NO.** 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi, TX 78427-0778 (City) (State) (Zip)

(Signed) Kim L. Wallendorf (Licensed Well Driller) (Signed) ____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. ____ Located on map ____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-008BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 19, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 550.5'
0						Clay, silty, firm, dark brownish gray from 1 to 2 feet.
	12/11 11/17	0			75	Clay, stiff, tan, dry with caliche from 2 to 3 feet.
5						
	11/13 13/15	20			100	Clay, gravelly, firm, light tan, moist.
						Boring Terminated at 8 ft.
10						
15						

OPTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

JUNE 1994
R\GARLAND\01-008BH

Send original copy by certified mail to: **Texas Water Commission, P.O. Box 13087, Austin, TX 78711-3087** *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) **WELL LOG:** 01-008BH
Date Drilling: Started 1-19 1994 Completed 1-19 1994

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	6
2	6	8

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.) To (ft.) Description and color of formation material

0 - 2' Dr Br clay
2' - 6' Tan clay
6' - 8' Lt tan gravely clay

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 8 ft. to 0 ft. No. of Sacks Used 2.5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-19-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) **WELL DRILLER'S LICENSE NO.** 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi, TX 78427-0778 (City) (State) (Zip)

(Signed) Kim D. Wakefield (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-009BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 20, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 551.5'
0						Fill.
	7/12	0			50	Clay, soft to firm, reddish brown, dry.
	14/14					
5						
	10/12	3			100	Clay, firm, mottled yellow and white, dry, with caliche.
	13/18					
10						Boring Terminated at 10 ft.
15						

Send original copy by certified mail to: **Texas Water Commission, P.O. Box 13087, Austin, TX 78711-3087** *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas _____ miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** 01-009BH
Date Drilling:
Started 1-20 1994
Completed 1-20 1994

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
8	Surface	8
2	8	10

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0 -	3'	Sandy Br fill
3' -	5'	Reddish br clay
5' -	10'	Yellow & white clay

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

(Use reverse side if necessary)

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 10 ft. to 0 ft. No. of Sacks Used 3
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-20-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) WELL DRILLER'S LICENSE NO. 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi, TX 78427-0778 (City) (State) (Zip)

(Signed) Kim D. Wakefield (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

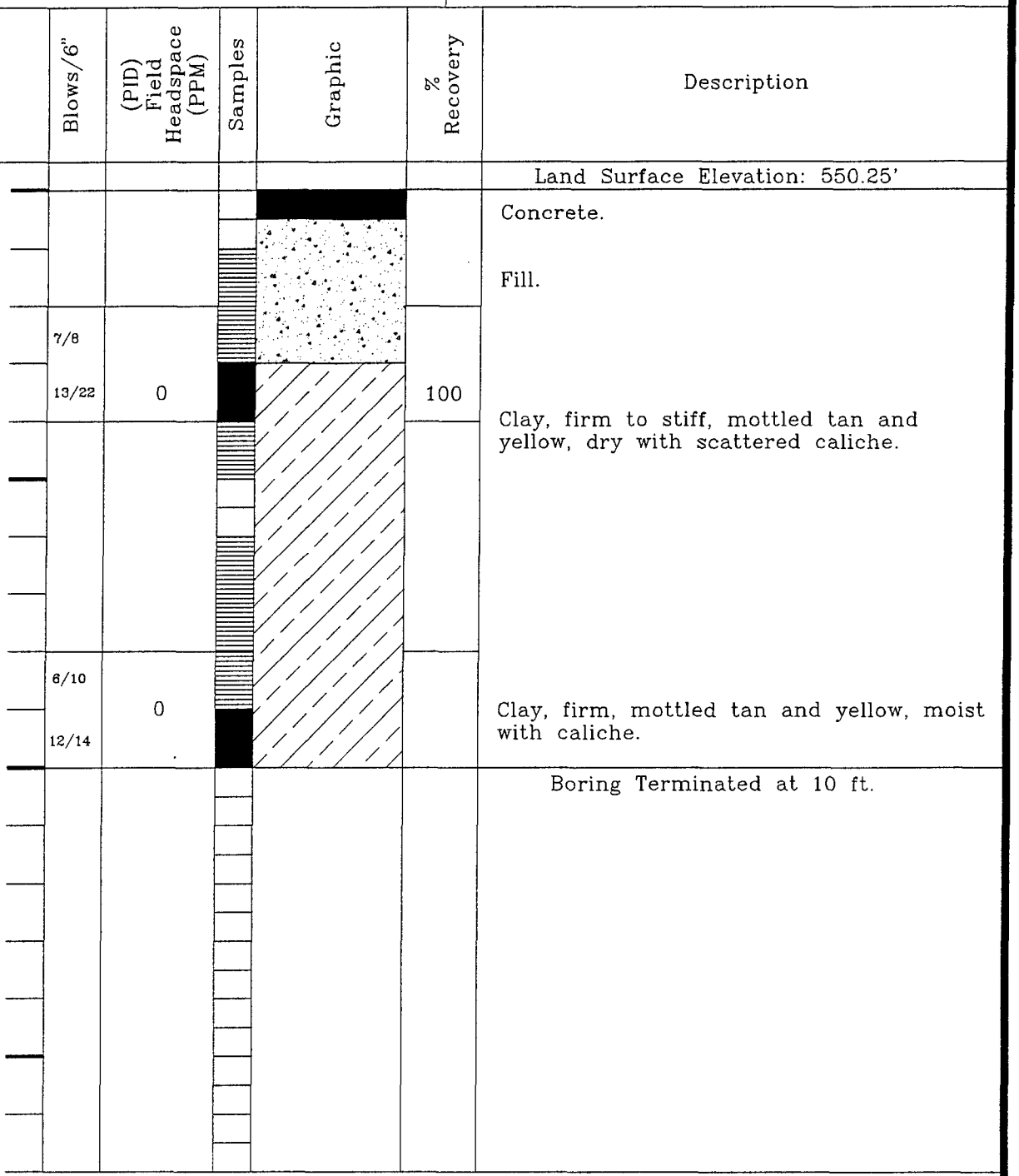
TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-010BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 20, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical



OPTECH
OPERATIONAL TECHNOLOGIES
CORPORATION

JUNE 1994
R\GARLAND\01-010BH

Send original copy by certified mail to: **Texas Water Commission, P.O. Box 13087, Austin, TX 78711-3087** *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas , _____ miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool XX Other HSA

6) **WELL LOG:** 01-010BH
Date Drilling: Started 1-20 1994 Completed 1-20 1994

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
8	Surface	8
2	8	10

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	.5'	Concrete
.5'	2'	Fill sandy br.
2'	10'	Yellow & Tan clay

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 10 ft. to 0 ft. No. of Sacks Used 3
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-20-94
Artesian flow _____ gpm. Date _____

12) **PACKERS:** Type Depth

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes XX No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) WELL DRILLER'S LICENSE NO. 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi, TX 78427-0778 (City) (State) (Zip)

(Signed) Kirk D. Wakefield (Licensed Well Driller)

(Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY

Log of Boring 01-011BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.:	1315-109	Date Drilled:	January 20, 1994
Logged By:	Phyllis Primrose	Drilling Method:	Hollow Stem Auger
Drilling Co.:	Jones Environmental Drilling, Inc.	Sampling Method:	California Style Sampler
Driller:	Kim H. Wakefield	Inclination:	Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
						Land Surface Elevation: 550.68'
0						
	5/6 9/16	0			75	Clay, soft, dark grayish brown, moist.
5						
	6/9 13/19	0			25	Clay, firm to stiff, mottled tan and yellow, dry with scattered caliche.
10	6/2 18/20	0			75	Clay, very stiff, mottled tan and yellow, dry, with caliche.
						Boring Terminated at 12 ft.
15						

Send original copy by certified mail to: **Texas Water Commission, P.O. Box 13087, Austin, TX 78711-3087** *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Optech

Texas Water Well Drillers Board
P.O. Box 13087
Austin, TX 78711-3087
512-371-6299

1) **OWNER** TX Air National Guard (Name) **ADDRESS** 901 S. Glenbrook, Garland, TX 75040 (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:**
County Dallas miles in _____ (NE, SW, etc.) direction from _____ (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):**
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** Boring
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):**
☐ Driven ☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☒ Other HSA

6) **WELL LOG:** 01-011BH
Date Drilling: Started 1-20 19 94 Completed 1-20 19 94

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
8	Surface	10
2	10	12

7) **BOREHOLE COMPLETION:**
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Grouted
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	.5'	Concrete
.5'	3'	Dr grayish br clay
3'	12'	Tan & yellow clay

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen

(Use reverse side if necessary)

9) **CEMENTING DATA** [Rule 287.44(1)]
Cemented from 12 ft. to 0 ft. No. of Sacks Used 4
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Hand
Cemented by JEDI

13) **TYPE PUMP:**
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

10) **SURFACE COMPLETION**
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

14) **WELL TESTS:**
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

11) **WATER LEVEL:**
Static level Dry ft. below land surface Date 1-20-94
Artesian flow _____ gpm. Date _____

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

12) **PACKERS:** Type Depth

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jones Envir. Drilling, Inc. (Type or print) **WELL DRILLER'S LICENSE NO.** 3209M

ADDRESS P.O. Box 270778 (Street or RFD) Corpus Christi, TX 78427-0778 (City) (State) (Zip)

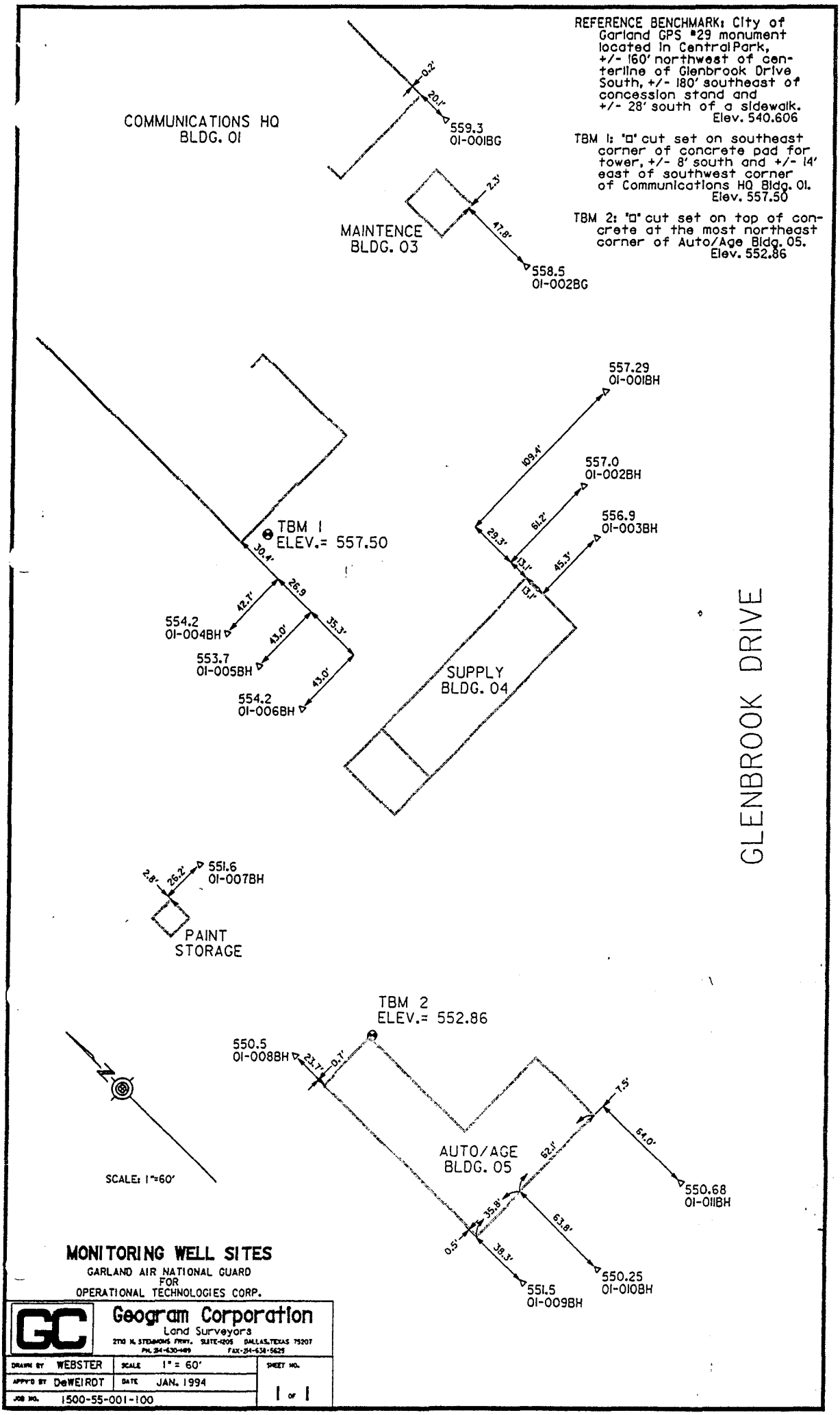
(Signed) Kim L. Wakefield (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

TWC-0199 (Rev. 05-18-90)

WELL OWNER'S COPY



MONITORING WELL SITES

GARLAND AIR NATIONAL GUARD
FOR
OPERATIONAL TECHNOLOGIES CORP.

Geogram Corporation
Land Surveyors
2710 N. STEMMONS FWY. SUITE-1205 DALLAS, TEXAS 75207
PH. 214-630-1499 FAX-214-638-5625

DRAWN BY WEBSTER	SCALE 1" = 60'	SHEET NO.
APP'D BY DeWEIRDT	DATE JAN. 1994	1 OF 1
JOB NO. 1500-55-001-100		

APPENDIX B

FIELD GC RESULTS

Summary of Gas Chromatograph Results
for Soil Samples
Garland ANGS, Texas ANG
Garland, Texas

Boring	Sample Interval (ft BLS)	Sample Mass (grams)	Corrected Concentrations (ppb)				
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
01-001BH	1-3	10g	-	-	-	-	-
01-001BH	3.5-4.5	10g	-	-	-	-	-
01-001BH	6-7	10g	-	-	-	-	-
01-002BH	0-1	10g	-	-	-	-	-
01-002BH	3-4	10g	-	-	-	-	-
01-002BH	6-7	10g	-	-	-	-	-
01-007BH	1-2	10g	-	-	-	-	-
01-007BH	6.5-7.5	10g	-	-	-	-	-
01-008BH	1-2	10g	2.592	3.331	46.220	-	52.143
01-008BH	7-8	10g	4.099	-	15.89	-	19.989
BG-001BH	0-2	10g	-	-	-	-	-
BG-001BH	4-5	10g	-	-	-	-	-
BG-001BH	7-8	10g	-	-	-	-	-
BG-002BH	0-2	10g	-	-	-	-	-
BG-002BH	3-4	10g	-	-	-	-	-
01-003BH	1-3	10g	-	-	-	-	-
01-003BH	6-8	10g	-	-	-	-	-
01-006BH	2-3	10g	-	-	-	-	-
01-006BH	6.4-7.0	10g	-	-	-	-	-
01-004BH	1-2	10g	-	-	-	-	-
01-004BH	7-8	10g	-	-	-	-	-
01-005BH	1-2	10g	-	-	-	-	-
01-005BH	7-8	10g	-	-	-	-	-
01-009BH	8-10	10g	-	-	-	-	-
01-010BH	2.5-3	10g	-	-	-	-	-
01-010BH	8.5-9	10g	-	-	-	-	-
01-011BH	1.5-2	10g	-	-	-	-	-
01-011BH	6-8	10g	-	-	-	-	-
01-011BH	11-12	10g	-	-	-	-	-

- Analyte not detected.

FIELD GC DATA SUMMARY

SITE: GARLAND AVG SI
GAIN: 5
CARRIER GAS FLOW: 14 cc/MIN

GC OVEN TEMP: 40°C
ANALYSIS TIME: 500 SEC
WINDOW: +/- 1090

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Corrected Concentrations (ppb)					
			MTBE	Benzene	Toluene	Ethyl-benzene	Xylene	Total BTEX
STANDARD	1/20/94			1000	1000	1000	2000	5000
BLANK	1/20/94			—	—	—	—	—
01-010BH	2.5-3	10g		—	—	—	—	—
BLANK	1/20/94			—	—	—	—	—
01-010BH	8.5-9	10g		—	—	—	—	—

OPERATOR: Marie Eveler
DATE: 1/20/94

FIELD GC DATA SUMMARY

SITE: GARLAND
GAIN: 5
CARRIER GAS FLOW: 12 cc/min

GC OVEN TEMP: 40°C
ANALYSIS TIME: 500 sec
WINDOW: +/- 10%

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Corrected Concentrations (ppb)					
			MTBE	Benzene	Toluene	Ethyl-benzene	Xylene	Total BTEX
STANDARD	1/21/94			1000	1000	1000	2000	5000
BLANK	1/21/94			—	—	—	—	—
01-011BH	1.5-2	10g		—	—	—	—	—
BLANK	1/21/94			—	—	—	—	—
01-011BH	6-8	10g		—	—	—	—	—
BLANK	1/21/94			—	—	—	—	—
01-011BH	11-12	10g		—	—	—	—	—

OPERATOR: Mark Eisele
DATE: 1/21/94

FIELD GC DATA SUMMARY

SITE: GARLAND ANG SI
GAIN: 2
CARRIER GAS FLOW: 14 cc/MIN

GC OVEN TEMP: 40 °C
ANALYSIS TIME: 500 sec
WINDOW: +/- 10%

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Corrected Concentrations (ppb)					
			~~MTBE~~	Benzene	Toluene	Ethyl-benzene	Xylene	Total BTEX
STANDARD	1/18/94			1,000	1,000	1,000	2,000	5000
01-001BH	1-3"	10g		—	—	—	—	—
01-001BH	3.5-4.5"	10g		—	—	—	—	—
BLANK	1/18/94			—	—	—	—	—
01-001BH	6-7"	10g		—	—	—	—	—

OPERATOR: Mark Escolar
DATE: 1/18/94

FIELD GC DATA SUMMARY

SITE: GARLAND ANG ST
GAIN: 5
CARRIER GAS FLOW: 14 cc/MIN

GC OVEN TEMP: 40°C
ANALYSIS TIME: 500 SEC
WINDOW: +/- 10%

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Corrected Concentrations (ppb)					
			MTBE	Benzene	Toluene	Ethyl-benzene	Xylene	Total BTEX
STANDARD	1/19/94			1,000	1,000	1,000	2,000	4,000
BLANK	1/19/94			—	—	—	—	—
01-002BH	0-1"	10g		—	—	—	—	—
BLANK	1/19/94			—	—	—	—	—
01-002BH	3-4"	10g		—	—	—	—	—
BLANK	1/19/94			—	—	—	—	—
01-002BH	6-7"	10g		—	—	—	—	—
STANDARD	1/19/94			1000	1081	1025	2150 ~~1550~~	5256 ~~4776~~
BLANK	1/19/94			—	—	—	—	—
01-007BH	1-2"	10g		—	—	—	—	—
BLANK	1/19/94			—	—	—	—	—
01-007BH	6.5-7.5"	10g		—	—	—	—	—
STANDARD	1/19/94			1,000	1,000	1,000	2,000	5000
BLANK	1/19/94			—	—	—	—	—
01-008BH	1-2"	10g		2.592	3.331	46.220	—	52.143
BLANK	1/19/94			—	—	—	—	—
01-008BH	7-8"	10g		4.099	—	15.89	—	19.989

OPERATOR: Mark Escalera

DATE: 1/19/94

FIELD GC DATA SUMMARY

SITE: GARLAND ANGSE
GAIN: 5
CARRIER GAS FLOW: 14 cc/min

GC OVEN TEMP: 40°C
ANALYSIS TIME: 500 sec
WINDOW: +/- 10%

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Corrected Concentrations (ppb)					
			~~MTBE~~	Benzene	Toluene	Ethyl-benzene	Xylene	Total BTEX
STANDARD	1/20/94			1000	1000	1000	2000	5000
BLANK	1/20/94			—	—	—	—	—
01-003BH	1-3"	10g		—	—	—	—	—
BLANK	1/20/94			—	—	—	—	—
01-003BH	6-8"	10g		—	—	—	—	—
STANDARD	1/20/94			1000	1000	1000	2000	5000
BLANK	1/20/94			—	—	—	—	—
01-004BH	1-2"	10g		—	—	—	—	—
BLANK	1/20/94			—	—	—	—	—
01-004BH	7-8"	10g		—	—	—	—	—
STANDARD	1/20/94			1000	1000	1000	2000	5000
BLANK	1/20/94			15.02	—	—	—	15.02
BLANK	1/20/94			—	—	—	—	—
BG-001BH	0-2"	10g		—	—	—	—	—
BLANK	1/20/94			—	—	—	—	—
BG-001BH	4-5"	10g		—	—	—	—	—
BLANK	1/20/94			—	—	—	—	—
BG-001BH	7-8'	10g		—	—	—	—	—

OPERATOR: Mark Escola

DATE: 1/20/94

FIELD GC DATA SUMMARY

SITE: GARLAND AVE ST
GAIN: 5
CARRIER GAS FLOW: 14 cc/min

GC OVEN TEMP: 40°C
ANALYSIS TIME: 500 sec
WINDOW: +/- 10%

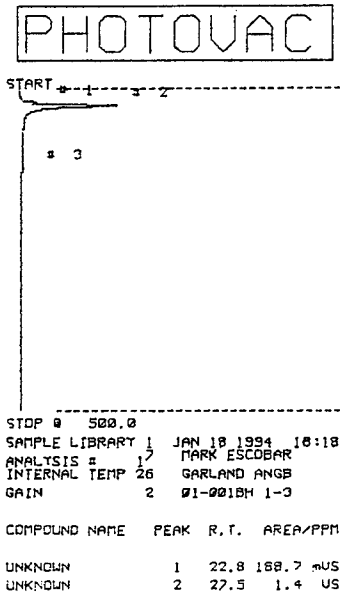
Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Corrected Concentrations (ppb)					
			~~MTBE~~	Benzene	Toluene	Ethyl-benzene	Xylene	Total BTEX
STANDARD	1/20/94			1000	1000	1000	2000	5000
BLANK	1/20/94			—	—	—	—	—
BG-002BH	0-2"	10g		—	—	—	—	—
BLANK	1/20/94			—	—	—	—	—
BG-002BH	3-4"	10g		—	—	—	—	—
STANDARD	1/20/94			1000	1000	1000	2000	5000
BLANK	1/20/94			—	—	—	—	—
01-005BH	1-2"	10g		—	—	—	—	—
BLANK	1/20/94			—	—	—	—	—
01-005BH	7-8"	10g		—	—	—	—	—
STANDARD	1/20/94			1000	1000	1000	2000	5000
BLANK	1/20/94			—	—	—	—	—
01-006BH	2-3"	10g		—	—	—	—	—
BLANK	1/20/94			—	—	—	—	—
01-006BH	6.5-7.0'	10g		—	—	—	—	—
STANDARD	1/20/94			1000	1000	1000	2000	5000
BLANK	1/20/94			—	—	—	—	—
01-009BH	8-10"	10g		—	—	—	—	—

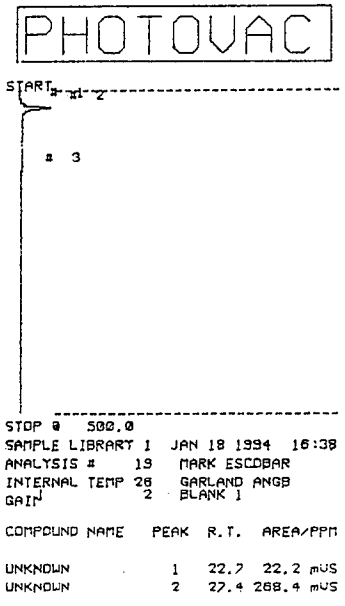
OPERATOR: Mark Evans
DATE: 1/20/94

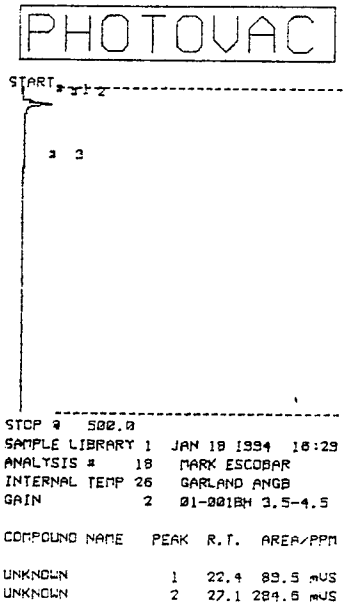
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

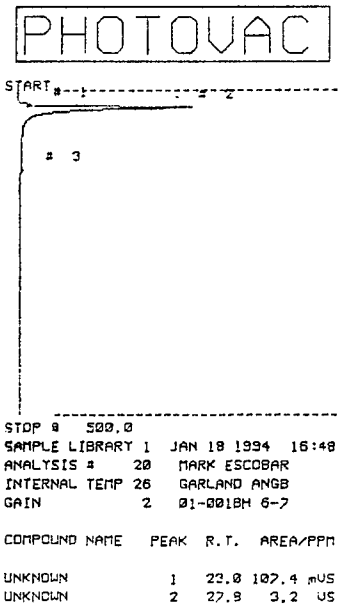
SITE: GARLAND ANGSI *WINDOW:* +/- 10%
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14cc/min

SAMPLE ID'S: 01-001BH









PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGSD *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/min

SAMPLE ID'S: STD RAN

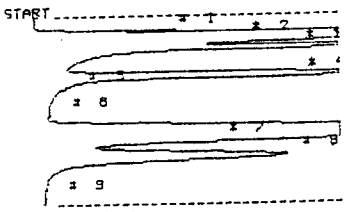
PHOTOVAC

JAN 19 1994 3: 2

FIELD: 30
POWER: 28

SAMPLE	8.0	10.0
CAL	0.0	0.0
EVENT 3	0.0	100.0
EVENT 4	0.0	0.0
EVENT 5	0.0	0.0
EVENT 6	0.0	0.0
EVENT 7	0.0	0.0
EVENT 8	0.0	0.0

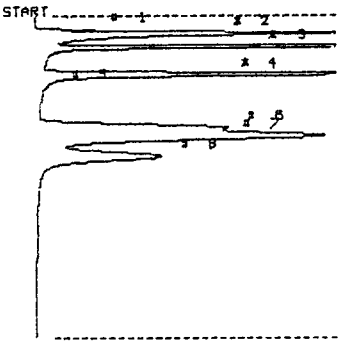
PHOTOVAC



STOP @ 291.1
SAMPLE LIBRARY 1 JAN 19 1994 9: 8
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 22 GARLAND ANGB
GAIN 10 STANDARD TEST

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	23.6	1.3	US
UNKNOWN	2	33.0	43.7	US
UNKNOWN	3	49.6	13.6	US
UNKNOWN	4	92.4	13.3	US
UNKNOWN	7	183.2	62.1	US
UNKNOWN	8	219.9	12.7	US

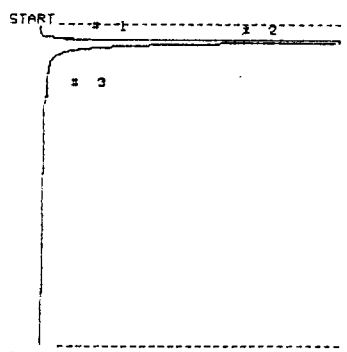
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 9:19
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 22 GARLAND ANGB
GAIN 5 STANDARD TEST

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	23.3	571.8	MUS
UNKNOWN	2	28.1	8.7	US
UNKNOWN	3	49.2	7.4	US
UNKNOWN	4	92.1	8.7	US
UNKNOWN	6	176.9	5.6	US
UNKNOWN	7	188.3	12.9	US
UNKNOWN	8	219.9	6.5	US

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 9:35
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 22 GARLAND ANGB
GAIN 5 BLANK 1

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.9	234.8	MUS
UNKNOWN	2	27.5	8.8	US

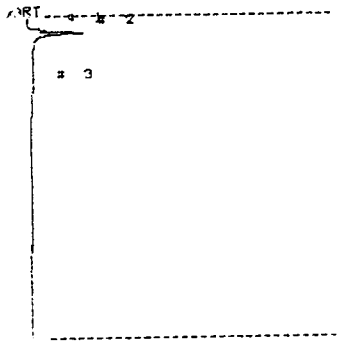
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/min

SAMPLE ID'S: STD RAN

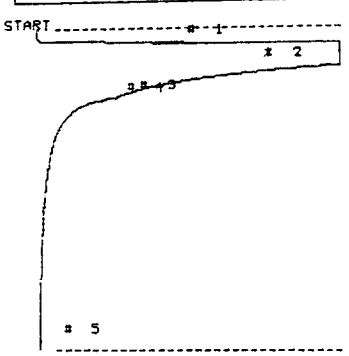
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 9:47
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 01-002BH 0-1

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.3	163.1	mUS
UNKNOWN	2	27.2	637.2	mUS

PHOTOVAC

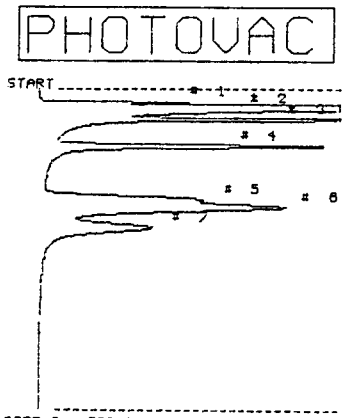


STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 10:10
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 BLANK 2

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.3	1.1	US
UNKNOWN	2	42.7	219.7	US
UNKNOWN	3	107.3	954.6	mUS
UNKNOWN	4	111.9	4.5	US

2

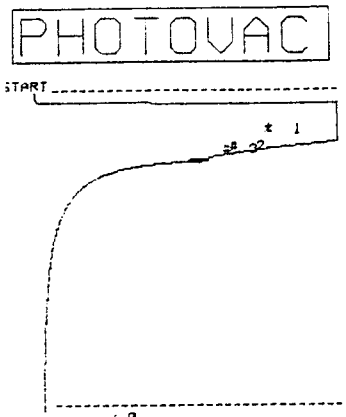
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 10:25
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STANDARD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.8	1.3	US
UNKNOWN	2	29.6	25.3	US
UNKNOWN	3	48.3	3.3	US
UNKNOWN	4	31.2	5.6	US
UNKNOWN	5	175.9	4.5	US
UNKNOWN	6	187.3	11.7	US
UNKNOWN	7	218.9	6.3	US

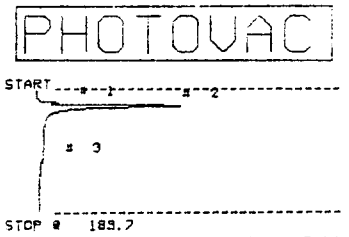
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 10: 1
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 BLANK 2

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
BENZENE	1	52.2	139.6	PPM
UNKNOWN	2	108.3	1.9	US
UNKNOWN	3	112.4	13.3	US

PHOTOVAC



STOP @ 183.7
SAMPLE LIBRARY 1 JAN 19 1994 10:14
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK 2

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.4	172.0	mUS
UNKNOWN	2	27.2	2.1	US

PHOTOVAC

CALIBRATED PEAK 3,ETHYLBENZENE

SAMPLE LIBRARY 1 JAN 19 1994 10:30
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STANDARD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
TOLUENE	1	22.8	122.0	PPB
UNKNOWN	2	29.6	25.3	US
ETHYLBENZENE	3	48.3	1220.	PPB
UNKNOWN	4	31.2	5.6	US
UNKNOWN	5	175.3	4.5	US
UNKNOWN	6	187.3	11.7	US
UNKNOWN	7	218.9	6.3	US

NG

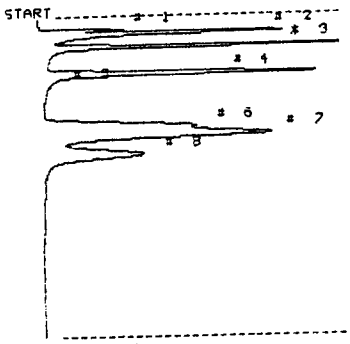
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/-10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/min

SAMPLE ID'S: STD RUN

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 10:41
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STANDARD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.5	810.7	mUS
UNKNOWN	2	27.1	4.3	US
UNKNOWN	3	48.1	8.4	US
UNKNOWN	4	91.0	5.4	US
UNKNOWN	6	175.3	4.4	US
UNKNOWN	7	186.3	10.3	US
UNKNOWN	8	218.5	5.2	US

PHOTOVAC

CALIBRATED PEAK 3,BENZENE

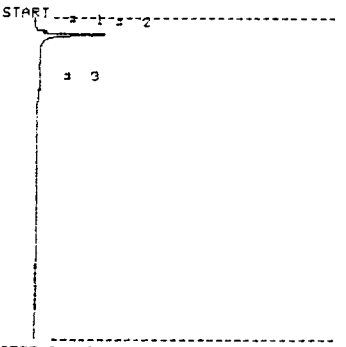
SAMPLE LIBRARY 1 JAN 19 1994 10:45
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STANDARD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.5	810.7	mUS
UNKNOWN	2	27.1	4.3	US
BENZENE	3	48.1	1000.	PPB
TOLUENE	4	91.0	1.000	PPM
ETHYLBENZENE	6	175.3	1.000	PPM
MP XYLENE	7	186.3	1.000	PPM
O XYLENE	8	218.5	1000.	PPB

PHOTOVAC

1	COMPOUND	ID #	R.T.	LIMIT	
	BENZENE	1	48.1	1.000	PPM
	TOLUENE	2	91.0	1.000	PPM
	ETHYLBENZENE	3	175.3	1.000	PPM
	MP XYLENE	4	186.3	1.000	PPM
	O XYLENE	5	218.5	1.000	PPM

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 10:55
ANALYSIS # 11 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.2	80.6	mUS
UNKNOWN	2	26.7	820.1	mUS

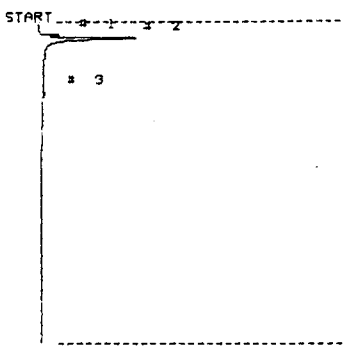
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* +/- 14cc/MIN (MF)

SAMPLE ID'S: 01-002BH

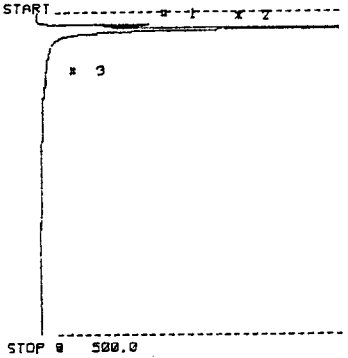
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:16
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 01-002BH 0-1

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	169.2 mUS
UNKNOWN	2	26.9	1.2 US

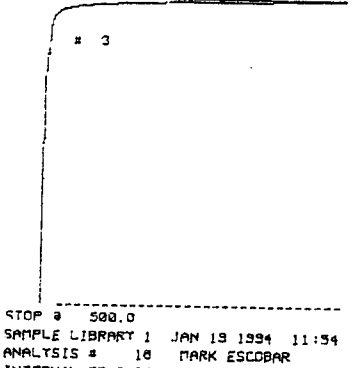
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:36
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 01-002BH 3-4

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.4	1.1 US
UNKNOWN	2	25.9	6.5 US

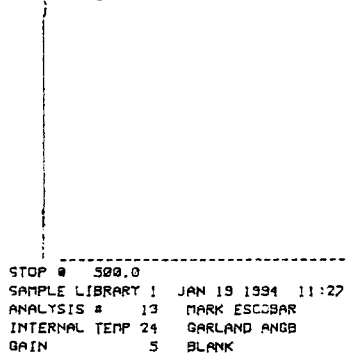
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:54
ANALYSIS # 16 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-002BH 6-7

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.2	471.6 mUS
UNKNOWN	2	26.8	6.5 US

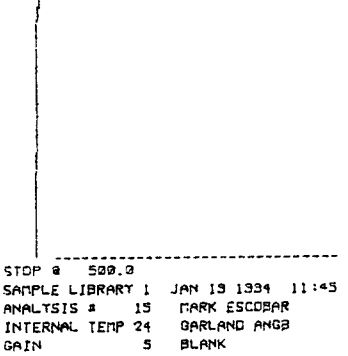
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:27
ANALYSIS # 13 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	72.7 mUS
UNKNOWN	2	26.5	437.0 mUS

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:45
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.3	112.4 mUS
UNKNOWN	2	26.7	1.9 US

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGST *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: STD RUN

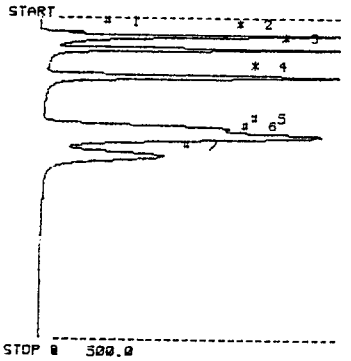
PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 9:13
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 22 GARLAND ANGB
GAIN 5 RECALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.3	543.0 mVS
UNKNOWN	2	29.6	14.4 VS
BENZENE	3	49.3	1.000 PPM
TOLUENE	4	90.2	1.065 PPM
MP XYLENE	5	190.3	1.000 PPM
O XYLENE	6	211.3	1.000 PPM

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 9:31
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 RECALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.9	424.1 mVS
UNKNOWN	2	28.6	7.6 VS
UNKNOWN	3	50.2	7.1 VS
UNKNOWN	4	93.1	8.6 VS
UNKNOWN	5	175.7	5.3 VS
UNKNOWN	6	186.7	12.6 VS
UNKNOWN	7	217.3	6.2 VS

PHOTOVAC

I	COMPOUND	ID #	R.T.	LIMIT
	BENZENE	1	49.3	1.000 PPM
	TOLUENE	2	88.8	1.000 PPM
	ETHYLBENZENE	3	160.1	1.000 PPM
	MP XYLENE	4	163.3	1.000 PPM
	O XYLENE	5	196.3	1.000 PPM

PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 9:34
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 RECALIBRATION

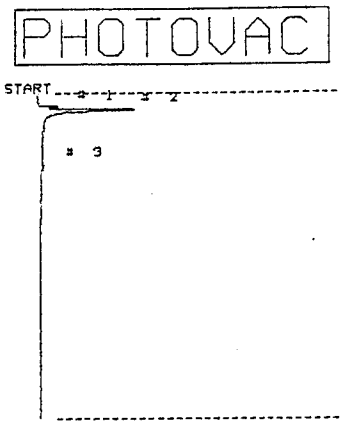
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.9	424.1 mVS
UNKNOWN	2	28.6	7.6 VS
BENZENE	3	50.2	1.000 PPM
TOLUENE	4	93.1	1000. PPB
ETHYLBENZENE	5	175.7	1.000 PPM
MP XYLENE	6	186.7	1000. PPB
O XYLENE	7	217.3	1000. PPB

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/- 10

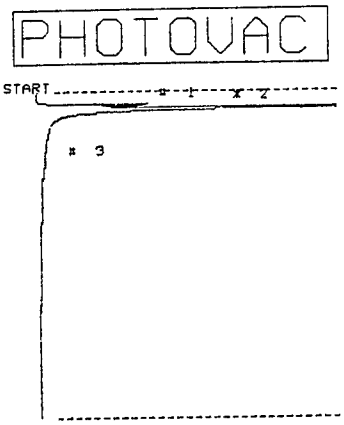
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* +/- 14cc/min (MKE)

SAMPLE ID'S: 01-002BH



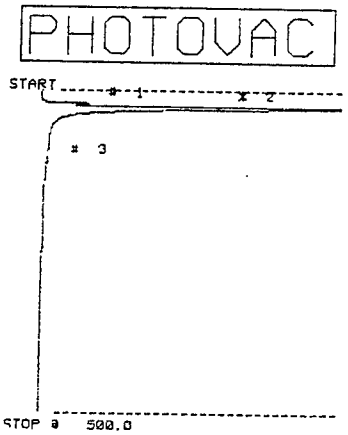
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:16
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 01-002BH 0-1

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.9	169.2 mVS
UNKNOWN	2	26.9	1.2 VS



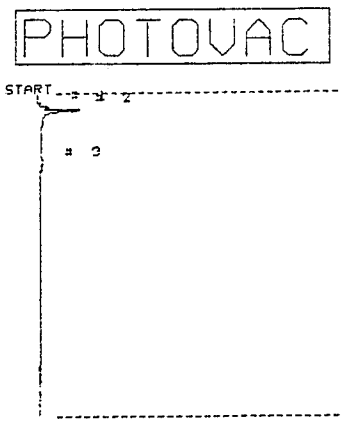
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:36
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 01-002BH 3-4

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.4	1.1 VS
UNKNOWN	2	25.9	6.5 VS



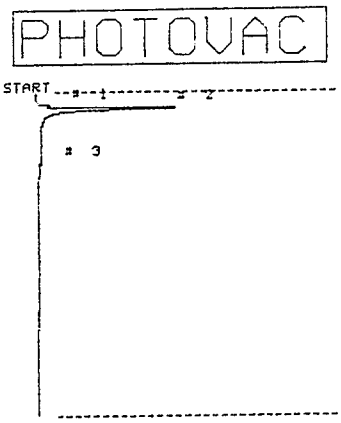
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:54
ANALYSIS # 18 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-002BH 6-7

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.2	471.6 mVS
UNKNOWN	2	26.8	6.5 VS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:27
ANALYSIS # 13 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	72.7 mVS
UNKNOWN	2	26.5	437.0 mVS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 11:45
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.3	112.4 mVS
UNKNOWN	2	26.7	1.9 VS

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGST *WINDOW:* +/-10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: STD RUN

PHOTOVAC

CALIBRATED PEAK 3,BENZENE

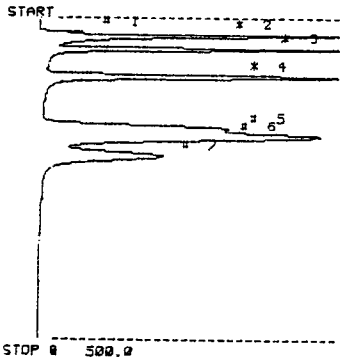
SAMPLE LIBRARY 1 JAN 20 1994 9:19
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 22 GARLAND ANGB
GAIN 5 RECALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.3	549.0 mVS
UNKNOWN	2	29.6	14.4 VS
BENZENE	3	49.3	1.000 PPM
TOLUENE	4	90.2	1.065 PPM
MP XYLENE	5	171.3	1.052 PPM
O XYLENE			

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	49.3	1.000 PPM
TOLUENE	2	88.8	1.000 PPM
ETHYLBENZENE	3	150.1	1.000 PPM
MP XYLENE	4	163.3	1.000 PPM
O XYLENE	5	196.3	1.000 PPM

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 9:31
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 RECALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.3	424.1 mVS
UNKNOWN	2	28.6	7.6 VS
UNKNOWN	3	50.2	7.1 VS
UNKNOWN	4	93.1	6.6 VS
UNKNOWN	5	175.7	5.3 VS
UNKNOWN	6	186.7	12.6 VS
UNKNOWN	7	217.3	6.2 VS

PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 9:34
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 RECALIBRATION

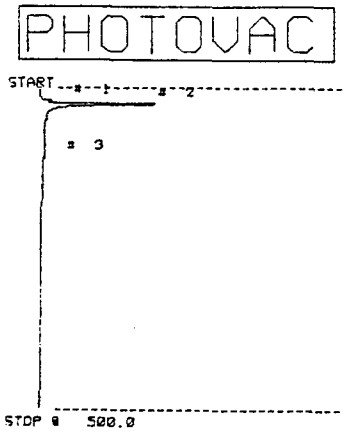
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.3	424.1 mVS
UNKNOWN	2	28.6	7.6 VS
BENZENE	3	50.2	1.000 PPM
TOLUENE	4	93.1	1000. PPB
ETHYLBENZENE	5	175.7	1.000 PPM
MP XYLENE	6	186.7	1000. PPB
O XYLENE	7	217.3	1000. PPB

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGSI *WINDOW:* +/- 10

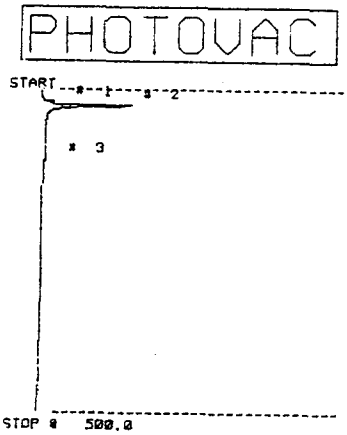
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: 01-0038H



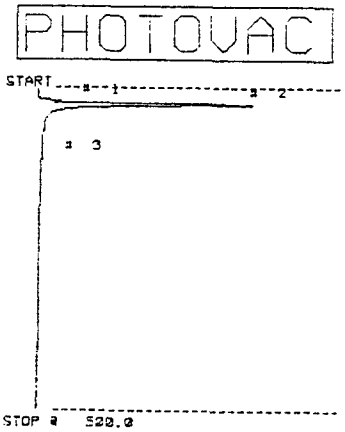
STOP @ 500.0
SAMPLE LIBRART 1 JAN 20 1994 9:50
ANALYSIS # 5 MARK ESCOBAR
NTERNAL TEMP 23 GARLAND ANGB
GAIN 5 01-0038H 1-3

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.2	103.0	mUS
UNKNOWN	2	26.5	1.4	US



STOP @ 500.0
SAMPLE LIBRART 1 JAN 20 1994 10: 8
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 01-0038H 6-8

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	21.8	106.7	mUS
UNKNOWN	2	26.0	1.1	US



STOP @ 520.0
SAMPLE LIBRART 1 JAN 20 1994 9:59
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

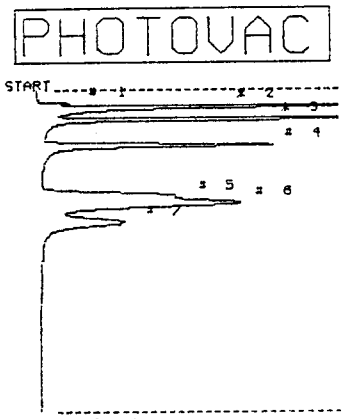
COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	23.0	206.5	mUS
UNKNOWN	2	27.2	3.2	US

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGSI *WINDOW:* +/- 10

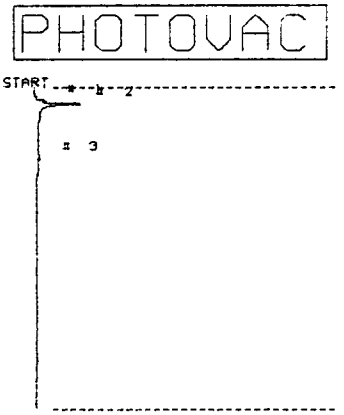
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* +/- 14cc/MIN ME

SAMPLE ID'S: 01-004BH



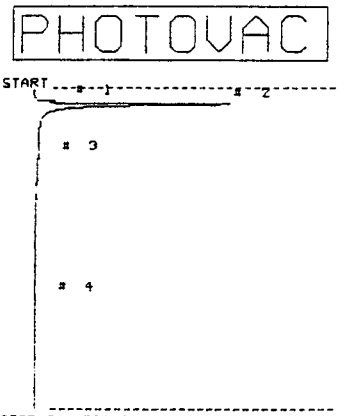
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 10:21
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD RUN BH 4

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.3	278.7 mVS
UNKNOWN	2	26.4	7.1 VS
BENZENE	3	46.3	787.2 PPB
TOLUENE	4	87.0	702.0 PPB
ETHYLBENZENE	5	162.7	681.5 PPB
ETHYLBENZENE	6	172.9	1.713 PPM
O XYLENE	7	207.7	897.3 PPB



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 10:37
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	90.3 mVS
UNKNOWN	2	26.5	498.6 mVS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 10:55
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

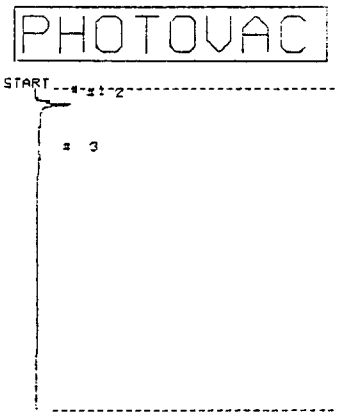
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.1	169.2 mVS
UNKNOWN	2	26.1	3.0 VS



CALIBRATED PEAK 3,BENZENE

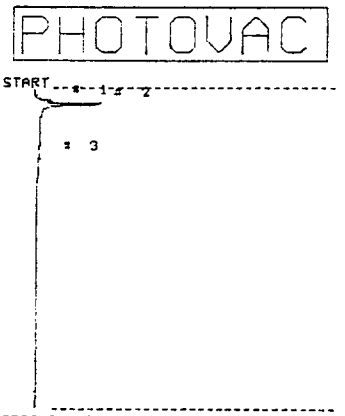
SAMPLE LIBRARY 1 JAN 20 1994 10:25
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 CALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.3	278.7 mVS
UNKNOWN	2	26.4	7.1 VS
BENZENE	3	46.3	1.000 PPM
TOLUENE	4	87.0	1000. PPB
ETHYLBENZENE	5	162.7	1000. PPB
MP XYLENE	6	172.9	1000. PPB
O XYLENE	7	207.7	1000. PPB



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 10:46
ANALYSIS # 11 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 01-004BH 1-2

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.2	127.1 mVS
UNKNOWN	2	26.4	358.2 mVS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 11:5
ANALYSIS # 13 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 01-004BH 7-8

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.9	160.1 mVS
UNKNOWN	2	26.1	759.0 mVS

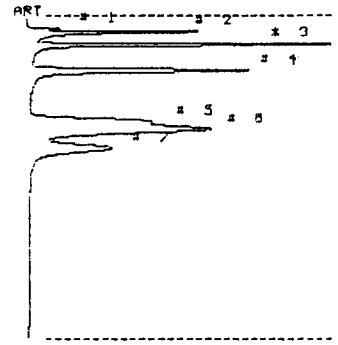
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGSI *WINDOW:* +/-10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/min

SAMPLE ID'S: 01-005 BH

PHOTOVAC



@ 500.0

PLE LIBRARY 1 JAN 20 1994 14: 2 ME

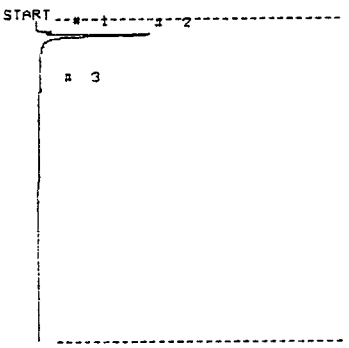
ANALYSIS # 29 MARK ESCOBAR

INTERNAL TEMP 25 GARLAND ANGB

N 5 ~~B0-005BH 3-4~~ STD 05

IPOUND NAME	PEAK	R.T.	AREA/PPM	
NKNOWN	1	21.9	283.1	mVS
UNKNOWN	2	26.2	2.2	VS
NKNOWN	3	46.0	4.8	VS
NOWN	4	86.5	4.3	VS
NOWN	5	166.7	3.2	VS
NOWN	6	177.1	8.1	VS
UNKNOWN	7	206.9	4.3	VS

PHOTOVAC



STOP @ 500.0

SAMPLE LIBRARY 1 JAN 20 1994 14:15

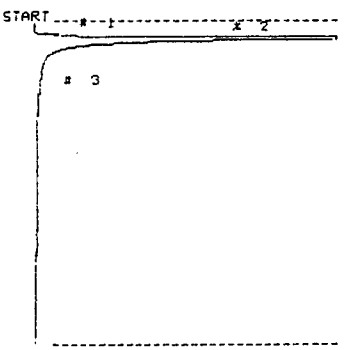
ANALYSIS # 31 MARK ESCOBAR

INTERNAL TEMP 25 GARLAND ANGB

GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.0	121.5	mVS
UNKNOWN	2	25.3	1.4	VS

PHOTOVAC



STOP @ 500.0

SAMPLE LIBRARY 1 JAN 20 1994 14:35

ANALYSIS # 33 MARK ESCOBAR

INTERNAL TEMP 25 GARLAND ANGB

GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	21.8	182.3	mVS
UNKNOWN	2	26.8	12.6	VS

PHOTOVAC

C IBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 14: 4 ME

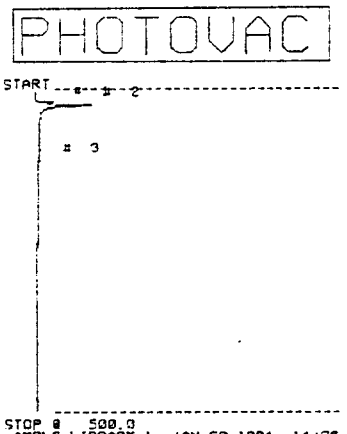
ANALYSIS # 29 MARK ESCOBAR

INTERNAL TEMP 25 GARLAND ANGB

N 5 ~~BG 005BH 3-4~~ STD 05

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
NKNOWN	1	21.9	283.1	mVS
NOWN	2	26.2	2.2	VS
ZENE	3	46.0	1.000	PPM
LUENE	4	86.5	1.000	PPM
THYLBENZENE	5	166.7	1000.	PPB
YLENE	6	177.1	1.000	PPM
LENE	7	206.9	1.000	PPM

PHOTOVAC



STOP @ 500.0

SAMPLE LIBRARY 1 JAN 20 1994 14:26

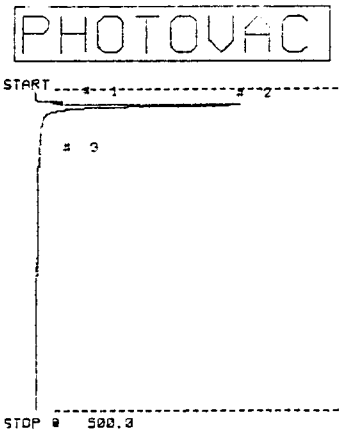
ANALYSIS # 32 MARK ESCOBAR

INTERNAL TEMP 25 GARLAND ANGB

GAIN 5 01 005BH 1-2

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	21.6	138.9	mVS
UNKNOWN	2	25.7	805.0	mVS

PHOTOVAC



STOP @ 500.0

SAMPLE LIBRARY 1 JAN 20 1994 14:45

ANALYSIS # 34 MARK ESCOBAR

INTERNAL TEMP 25 GARLAND ANGB

GAIN 5 01-005BH 7-8

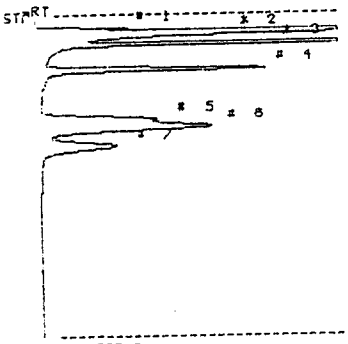
COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	21.9	236.7	mVS
UNKNOWN	2	26.1	2.9	VS

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGSF *WINDOW:* +/- 10
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/min

SAMPLE ID'S: 01-0068H

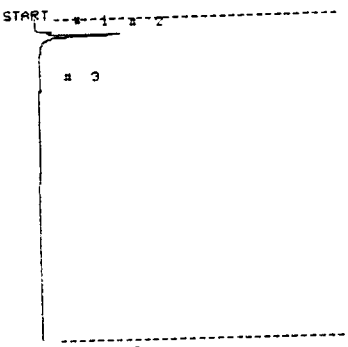
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 14:55
ANALYSIS # 35 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 ~~01-0068H 7-8~~ STD 06

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.7	683.7 mVS
UNKNOWN	2	28.1	14.7 VS
UNKNOWN	3	46.8	6.0 VS
UNKNOWN	4	97.2	4.2 VS
UNKNOWN	5	167.1	3.2 VS
UNKNOWN	6	177.7	7.0 VS
UNKNOWN	7	207.5	3.3 VS

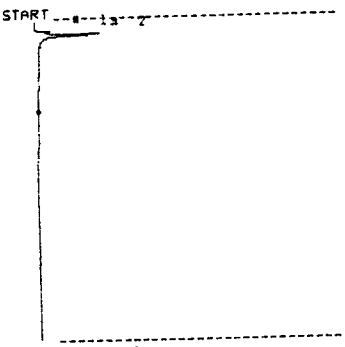
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 15: 8
ANALYSIS # 36 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.6	127.5 mVS
UNKNOWN	2	25.9	936.8 mVS

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 15:26
ANALYSIS # 38 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.6	120.1 mVS
UNKNOWN	2	25.9	702.2 mVS

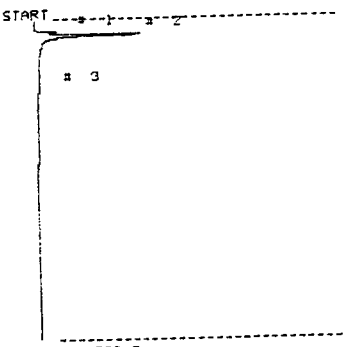
PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 14:58
ANALYSIS # 35 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD 0068H

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.7	683.7 mVS
UNKNOWN	2	28.1	14.7 VS
BENZENE	3	46.8	1.000 PPM
TOLUENE	4	97.2	1000. PPB
ETHYLBENZENE	5	167.1	1000. PPB
MP XYLENE	6	177.7	1000. PPB
O XYLENE	7	207.5	1000. PPB

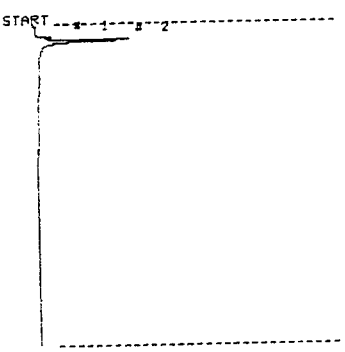
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 15:17
ANALYSIS # 37 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-0068H 2-3

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.9	183.5 mVS
UNKNOWN	2	26.2	1.2 VS

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 15:32
ANALYSIS # 39 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-0068H 6.5-7.0

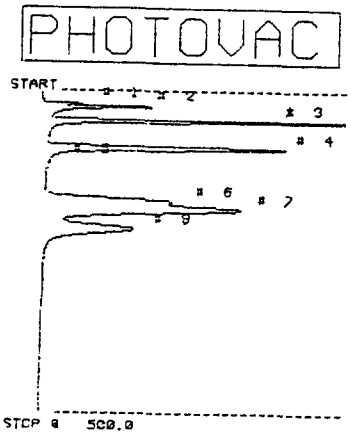
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.6	138.1 mVS
UNKNOWN	2	25.3	1.1 VS

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/-10

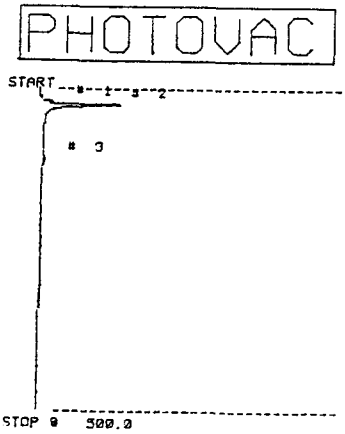
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14cc/min

SAMPLE ID'S: 01-0078H



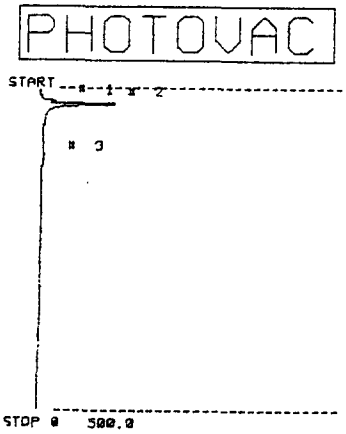
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 12: 8
ANALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD CHECK BH7

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	392.2 mUS
UNKNOWN	2	26.9	1.4 US
BENZENE	3	48.0	819.6 PPB
TOLUENE	4	91.0	885.5 PPB
ETHYLBENZENE	6	175.5	839.1 PPB
P XYLENE	7	186.9	862.2 PPB
XYLENE	8	218.5	838.3 PPB



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 12:19
ANALYSIS # 18 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	113.8 mUS
UNKNOWN	2	26.8	372.4 mUS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 12:35
ANALYSIS # 20 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

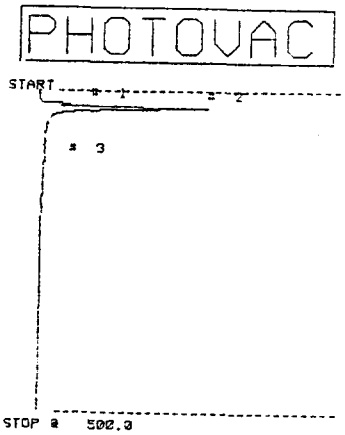
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	125.2 mUS
UNKNOWN	2	26.6	896.0 mUS



CALIBRATED PEAK 3,BENZENE

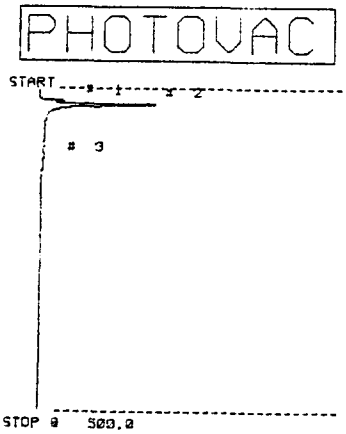
MPLE LIBRARY 1 JAN 19 1994 12: 9
ALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STD CHECK BH7

MPOUND NAME	PEAK	R.T.	AREA/PPM
KNOWN	1	22.4	392.2 mUS
NKNOWN	2	26.9	1.4 US
ENZENE	3	48.0	1.000 PPM
OLUENE	4	91.0	1.081 PPM
HYLBENZENE	6	175.5	1.025 PPM
XYLENE	7	186.9	1.053 PPM
XYLENE	8	218.5	1.037 PPM



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 12:30
ANALYSIS # 19 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-0078H 1-2

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.0	313.8 mUS
UNKNOWN	2	27.6	2.4 US



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 13: 0
ANALYSIS # 21 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-0078H 6.5-7.5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.3	230.1 mUS
UNKNOWN	2	26.5	1.5 US

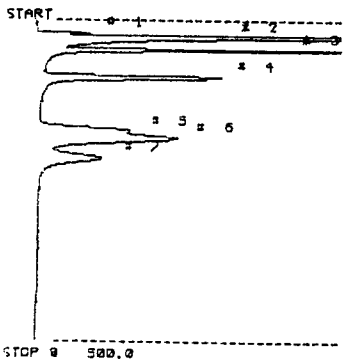
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: 01-008BH (STD)

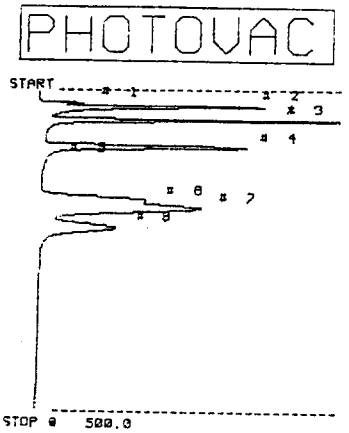
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 13:38
ANALYSIS # 22 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STD CHECK BHB

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	422.3 mVS
UNKNOWN	2	27.2	10.3 VS
BENZENE	3	42.5	922.2 PPB
TOLUENE	4	50.3	786.9 PPB
ETHYLBENZENE	5	138.3	786.9 PPB
MP XYLENE	6	186.1	736.0 PPB
O XYLENE	7	217.5	742.5 PPB

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 13:50
ANALYSIS # 23 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD CHECK BHB

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.5	390.6 mVS
UNKNOWN	2	26.9	3.4 VS
UNKNOWN	3	42.8	4.6 VS
UNKNOWN	4	50.6	4.1 VS
UNKNOWN	5	175.1	3.0 VS
UNKNOWN	7	186.3	2.3 VS
UNKNOWN	8	217.7	3.8 VS

PHOTOVAC

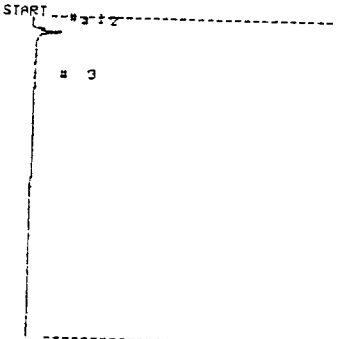
CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 19 1994 13:53
ANALYSIS # 23 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD CHECK BHB

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.5	390.6 mVS
UNKNOWN	2	26.9	3.4 VS
BENZENE	3	42.8	1.000 PPM
TOLUENE	4	50.6	1.000 PPM
ETHYLBENZENE	6	175.1	1.000 PPM
MP XYLENE	7	186.3	1.000 PPM
O XYLENE	8	217.7	1.000 PPM

PHOTOVAC

START



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 14: 3
ANALYSIS # 24 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.3	113.1 mVS
UNKNOWN	2	26.5	275.5 mVS

PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 19 1994 13:39
ANALYSIS # 22 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STD CHECK BHB

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	422.3 mVS
UNKNOWN	2	27.2	10.3 VS
BENZENE	3	42.5	1000. PPB
TOLUENE	4	50.3	954.7 PPB
ETHYLBENZENE	5	138.3	762.3 PPB
MP XYLENE	6	186.1	793.8 PPB
O XYLENE	7	217.5	800.8 PPB

PHOTOVAC

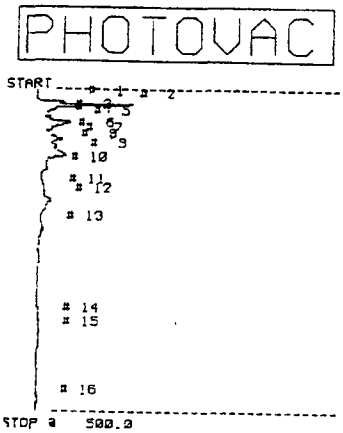
1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	42.8	1.000 PPM
TOLUENE	2	50.6	1.000 PPM
ETHYLBENZENE	3	175.1	1.000 PPM
MP XYLENE	4	186.3	1.000 PPM
O XYLENE	5	217.7	1.000 PPM

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/- 10

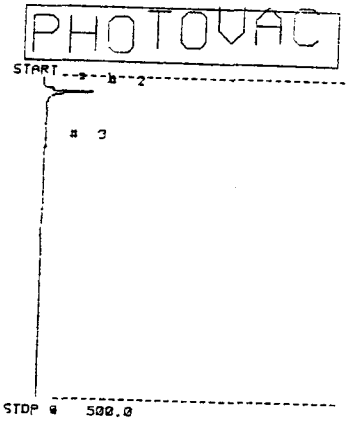
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: 01-008BH



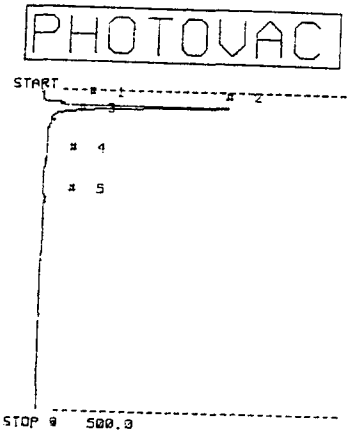
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 14:13
ANALYSIS # 25 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-008BH 1-2

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.1	254.8 mVS
UNKNOWN	2	26.3	919.8 mVS
UNKNOWN	3	42.6	34.5 mVS
BENZENE	4	48.3	2.592 PPB
UNKNOWN	5	53.9	171.4 mVS
UNKNOWN	6	72.2	39.8 mVS
UNKNOWN	7	79.1	143.8 mVS
TOLUENE	8	89.6	3.321 PPB
UNKNOWN	9	103.8	320.2 mVS
UNKNOWN	10	125.1	38.3 mVS
UNKNOWN	11	158.5	13.8 mVS
ETHYLBENZENE	12	174.3	46.22 PPB
UNKNOWN	14	360.5	22.5 mVS
UNKNOWN	15	382.1	37.8 mVS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 14:23
ANALYSIS # 28 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.3	95.1 mVS
UNKNOWN	2	26.3	561.5 mVS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 19 1994 14:32
ANALYSIS # 27 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-008BH 7-8

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	208.4 mVS
UNKNOWN	2	26.7	2.5 VS
BENZENE	3	47.8	4.093 PPB
ETHYLBENZENE	5	174.7	15.83 PPB

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGSI *WINDOW:* +/- 10
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: STD RUN

PHOTOVAC

JAN 20 1994 8:25

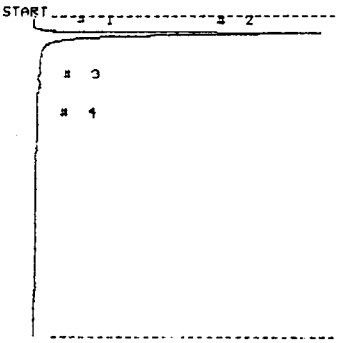
FIELD: 31
POWER: 27

SAMPLE	0.0	10.0
CAL	0.0	0.0
EVENT 3	0.0	100.0
EVENT 4	0.0	0.0
EVENT 5	0.0	0.0
EVENT 6	0.0	0.0
EVENT 7	0.0	0.0
EVENT 8	0.0	0.0

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	58.4	1.000 PPM
TOLUENE	2	105.2	1.000 PPM
ETHYLBENZENE	3	183.7	1.000 PPM
MP XYLENE	4	200.6	1.000 PPM
O XYLENE	5	232.5	1.000 PPM

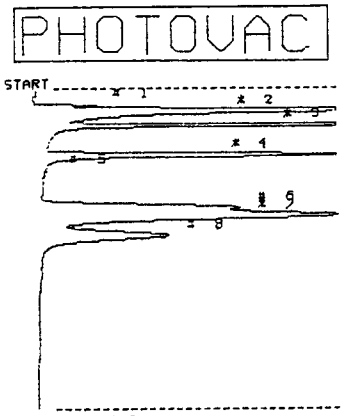
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 9:2
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 22 BLANK
GAIN 5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.4	22.8 mVS
UNKNOWN	2	27.7	4.0 VS

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 8:47
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 20 GARLAND ANGB
GAIN 5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.3	632.3 mVS
UNKNOWN	2	34.9	21.1 VS
UNKNOWN	3	58.4	8.8 VS
UNKNOWN	4	105.2	7.1 VS
MP XYLENE	6	183.7	803.5 PPB
MP XYLENE	7	200.6	1.832 PPM
O XYLENE	8	232.5	1.702 PPM

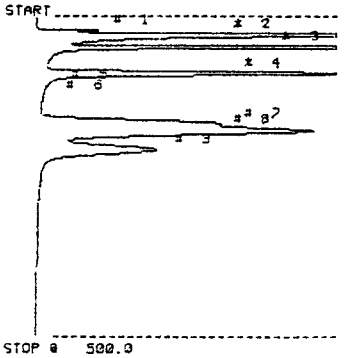
PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 8:52
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 21 GARLAND ANGB
GAIN 5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.3	632.3 mVS
UNKNOWN	2	34.9	21.1 VS
BENZENE	3	58.4	1.200 PPM
TOLUENE	4	105.2	1.200 PPM
ETHYLBENZENE	6	183.7	1000. PPB
MP XYLENE	7	200.6	1900. PPB
O XYLENE	8	232.5	1.000 PPM

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 9:14
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 22 GARLAND ANGB
GAIN 5 RECALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.8	549.8 mVS
UNKNOWN	3	53.3	5.2 VS
UNKNOWN	4	92.2	6.3 VS
UNKNOWN	7	170.9	4.9 VS
ETHYLBENZENE	8	181.3	2.083 PPM
MP XYLENE	9	211.3	449.4 PPB

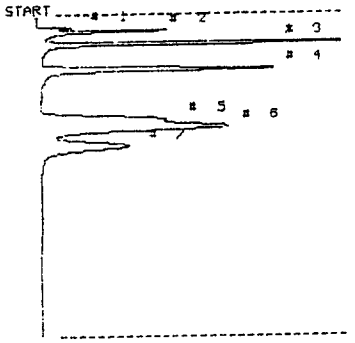
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANG ST *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: 01-009BH

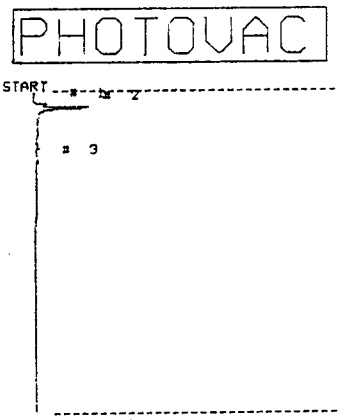
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 15:46
ANALYSIS # 40 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD 0038H

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.1	308.3 mUS
UNKNOWN	2	26.2	1.6 US
UNKNOWN	3	46.1	5.1 US
UNKNOWN	4	86.7	4.5 US
UNKNOWN	5	167.1	3.3 US
UNKNOWN	6	177.5	8.3 US
UNKNOWN	7	207.1	4.0 US

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 15:59
ANALYSIS # 41 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.7	109.3 mUS
UNKNOWN	2	25.8	582.2 mUS

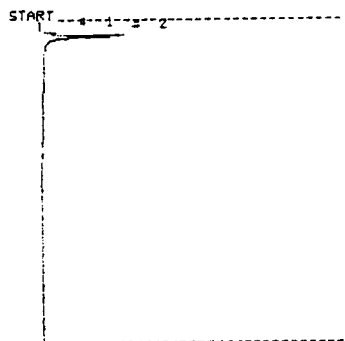
PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 15:43
ANALYSIS # 40 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD 0038H

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.1	308.3 mUS
UNKNOWN	2	26.2	1.6 US
BENZENE	3	46.1	1.000 PPM
TOLUENE	4	86.7	1.000 PPM
ETHYLBENZENE	5	167.1	1.000 PPM
MP XYLENE	6	177.5	1.000 PPM
O XYLENE	7	207.1	1000. PPB

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 16: 8
ANALYSIS # 42 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 ~~Blank~~ 009BH 8-10

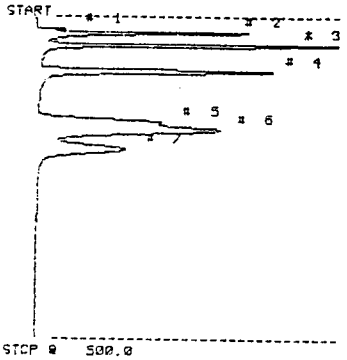
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.5	148.5 mUS
UNKNOWN	2	25.8	373.5 mUS

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGSF *WINDOW:* +/- 10
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: ~~01-00~~ ME 01-010 BH

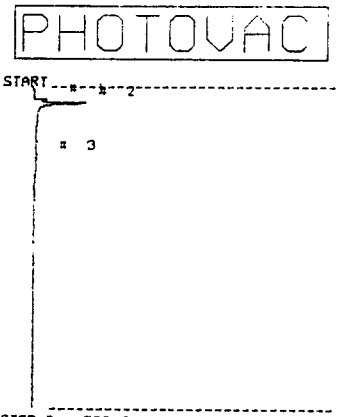
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 16:18
ANALYSIS # 43 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD 0108H

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	234.3 mVS
UNKNOWN	2	26.2	3.0 VS
UNKNOWN	3	46.1	5.0 VS
UNKNOWN	4	86.8	4.6 VS
UNKNOWN	5	167.3	3.2 VS
UNKNOWN	6	177.7	8.1 VS
UNKNOWN	7	207.3	4.3 VS

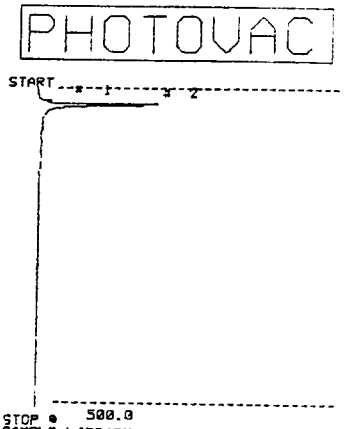
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 16:30
ANALYSIS # 44 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.9	105.6 mVS
UNKNOWN	2	26.1	538.7 mVS

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 16:48 ME
ANALYSIS # 46 MARK ESCOBAR
INTERNAL TEMP 26 GARLAND ANGB
GAIN 5 ~~01-010BH 2.5-3~~ BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.8	97.1 mVS
UNKNOWN	2	25.9	1.5 VS

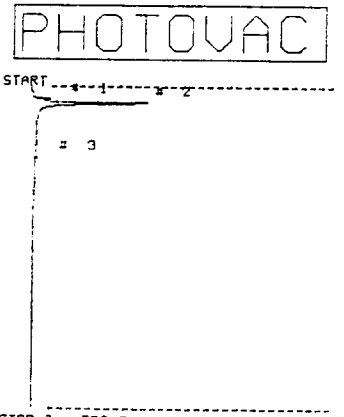
PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 16:20
ANALYSIS # 43 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 STD 0108H

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	234.3 mVS
UNKNOWN	2	26.2	3.0 VS
BENZENE	3	46.1	1.000 PPM
TOLUENE	4	86.8	1000. PPB
ETHYLBENZENE	5	167.3	1.000 PPM
P XYLENE	6	177.7	1.000 PPM
O XYLENE	7	207.3	1.000 PPM

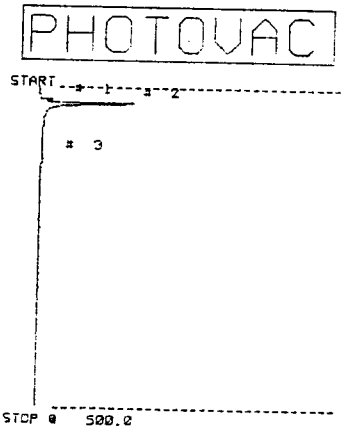
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 16:39
ANALYSIS # 45 MARK ESCOBAR
INTERNAL TEMP 26 GARLAND ANGB
GAIN 5 01-0108H 2.5-3

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.6	153.0 mVS
UNKNOWN	2	25.8	1.4 VS

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 16:59
ANALYSIS # 47 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 01-0108H 8.5-9.0

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.9	34.8 mVS
UNKNOWN	2	26.1	1.1 VS

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 12 cc/min

SAMPLE ID'S: ~~01-00~~ (ME) 01-011BH

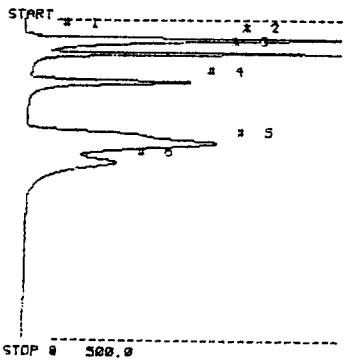
PHOTOVAC

IAN 20 1994 17:18

'IELD: 31
POWER: 14

SAMPLE	8.0	10.0
AL	0.0	0.0
UENT 3	0.0	100.0
UENT 4	0.0	0.0
EUENT 5	0.0	0.0
EUENT 6	0.0	0.0
EUENT 7	0.0	0.0
UENT 8	0.0	0.0

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 21 1994 10:18
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 20 GARLAND ANGB
GAIN 2 STD @11BH

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.6	159.0 mUS
UNKNOWN	2	31.0	10.9 US
UNKNOWN	3	53.5	4.4 US
UNKNOWN	4	98.8	4.1 US
UNKNOWN	5	194.5	14.5 US
UNKNOWN	6	225.3	6.6 US

PHOTOVAC

CALIBRATED PEAK 3,BENZENE

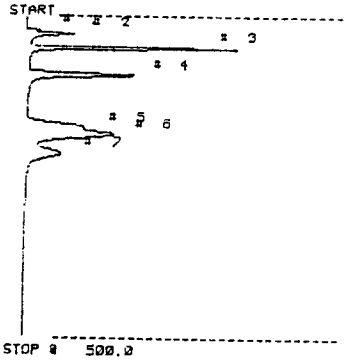
SAMPLE LIBRARY 1 JAN 21 1994 10:30
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 21 GARLAND ANGB
GAIN 5 STD @11BH

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	137.9 mUS
UNKNOWN	2	29.8	587.5 mUS
BENZENE	3	51.5	1.000 PPM
TOLUENE	4	93.5	1.000 PPM
ETHYLBENZENE	5	174.7	1.000 PPM
MP XYLENE	6	185.3	1.000 PPM
O XYLENE	7	215.3	1.000 PPM

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
NZENE	1	46.1	1.000 PPM
LUENE	2	86.8	1.000 PPM
ETHYLBENZENE	3	162.3	1.000 PPM
MP XYLENE	4	177.2	1.000 PPM
O XYLENE	5	207.3	1.000 PPM

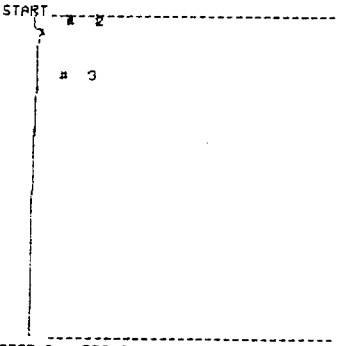
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 21 1994 10:27
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 21 GARLAND ANGB
GAIN 2 STD @11BH

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	137.9 mUS
UNKNOWN	2	29.8	592.5 mUS
UNKNOWN	3	51.5	2.2 US
UNKNOWN	4	93.5	2.0 US
UNKNOWN	5	174.7	1.5 US
UNKNOWN	6	185.3	3.5 US
UNKNOWN	7	215.3	1.0 US

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 21 1994 10:41
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 22 GARLAND ANGB
GAIN 5 BLANK

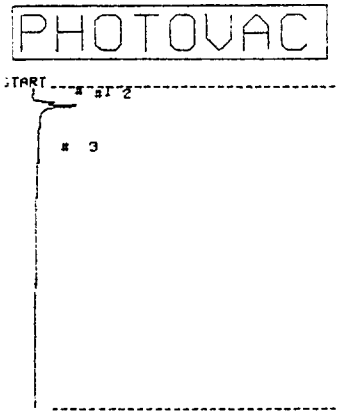
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	45.4 mUS
UNKNOWN	2	29.0	22.7 mUS

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND *WINDOW:* +/- 10

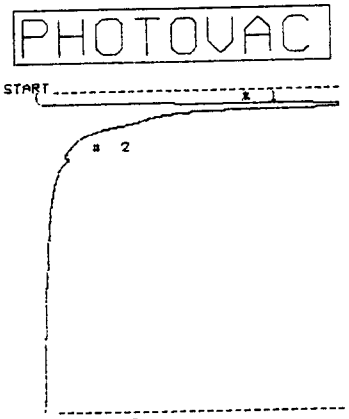
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 12cc/min

SAMPLE ID'S: 01-011BH



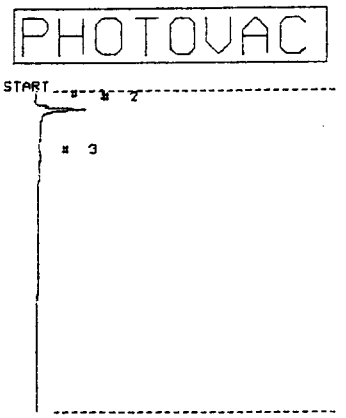
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 21 1994 10:50
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 22 GARLAND ANGB
GAIN 5 01-011BH 1.5-2

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.8	242.4 mVS
UNKNOWN	2	30.8	541.7 mVS



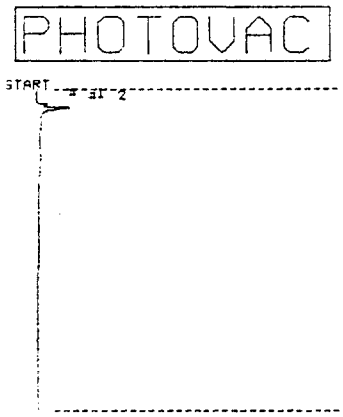
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 21 1994 11: 8
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 01-011BH 6-8

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.0	19.4 VS
UNKNOWN	2	108.6	7.7 mVS



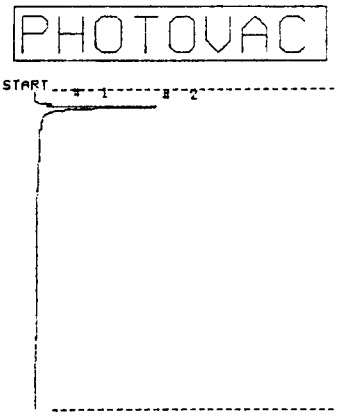
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 21 1994 11:26
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.1	151.0 mVS
UNKNOWN	2	29.9	606.8 mVS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 21 1994 10:59
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.6	102.1 mVS
UNKNOWN	2	23.3	373.5 mVS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 21 1994 11:36
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 23 GARLAND ANGB
GAIN 5 01-011BH 11-12

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.3	180.9 mVS
UNKNOWN	2	28.9	1.6 VS

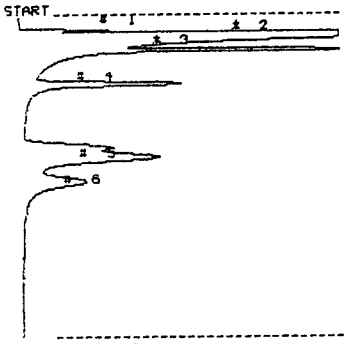
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANG ST *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/min

SAMPLE ID'S: STD RUNS

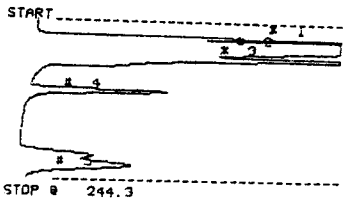
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 13:17
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 2 WORKING STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	26.1	850.1	mUS
UNKNOWN	2	34.2	27.8	US
UNKNOWN	3	58.5	10.5	US
UNKNOWN	4	115.8	5.8	US
UNKNOWN	5	236.7	11.1	US

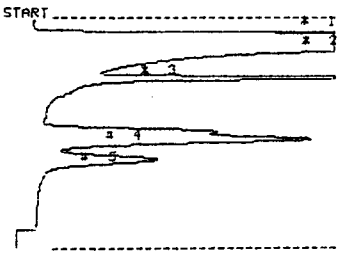
PHOTOVAC



STOP @ 244.3
SAMPLE LIBRARY 1 JAN 18 1994 13:30
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 26 GARLAND ANGB
GAIN 2 WORKING STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	25.8	3.2	US
UNKNOWN	2	37.8	23.3	US
UNKNOWN	3	58.1	10.8	US
UNKNOWN	4	115.8	2.4	US

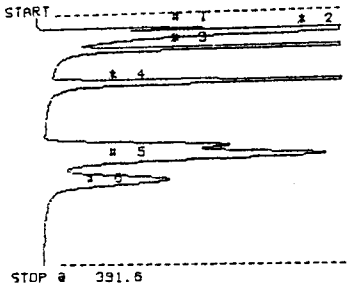
PHOTOVAC



STOP @ 356.8
SAMPLE LIBRARY 1 JAN 18 1994 13:46
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 26 GARLAND ANGB
GAIN 2 WORKING STD

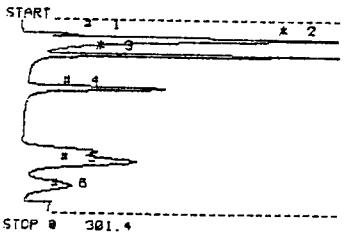
COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	23.8	3.5	US
UNKNOWN	2	41.4	60.9	US
UNKNOWN	3	99.1	15.1	US
UNKNOWN	4	201.9	18.5	US

PHOTOVAC



STOP @ 391.6
SAMPLE LIBRARY 1 JAN 18 1994 13:25
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 WORKING STD

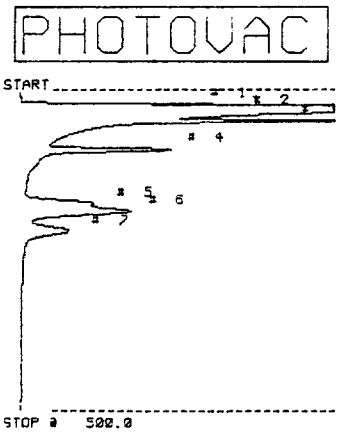
COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	25.9	1.8	US
UNKNOWN	2	32.7	17.4	US
UNKNOWN	3	57.6	10.5	US
UNKNOWN	4	114.2	12.2	US
UNKNOWN	5	236.7	20.7	US
UNKNOWN	6	277.5	7.0	US



STOP @ 301.4
SAMPLE LIBRARY 1 JAN 18 1994 13:37
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 26 GARLAND ANGB
GAIN 5 WORKING STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	25.9	639.3	mUS
UNKNOWN	2	31.7	11.8	US
UNKNOWN	3	59.2	5.5	US
UNKNOWN	4	115.8	3.8	US
UNKNOWN	5	236.7	8.4	US
UNKNOWN	6	277.5	2.7	US

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 13:55
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 26 GARLAND ANGB
GAIN 2 WORKING STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	23.7	1.6	US
UNKNOWN	2	31.7	33.5	US
UNKNOWN	3	50.1	9.7	US
UNKNOWN	4	85.3	2.5	US
UNKNOWN	5	190.1	2.0	US
UNKNOWN	6	131.7	4.4	US
UNKNOWN	7	222.8	2.2	US

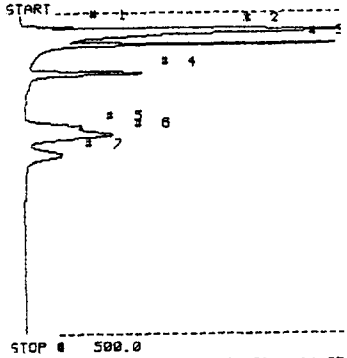
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGB *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: STD RUNS

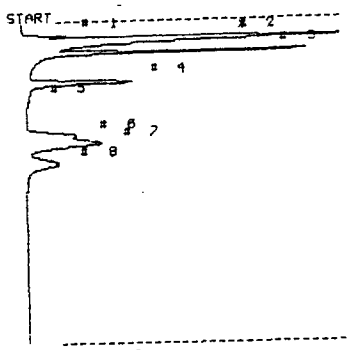
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 14:25
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 2 CALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	1	23.3	425.0 PPB
MTBE	2	28.5	602.8 PPB
TOLUENE	3	50.4	642.5 PPB
ETHYLBENZENE	4	55.4	877.7 PPB
MP XYLENE	5	180.3	842.3 PPB
O XYLENE	6	191.9	836.0 PPB
UNKNOWN	7	223.1	1.8 US

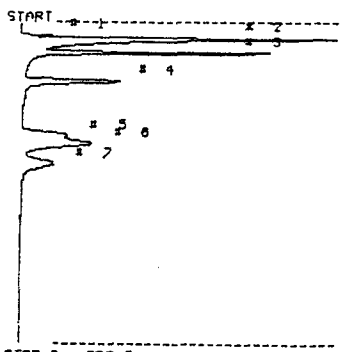
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 14:48
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 26 GARLAND ANGB
GAIN 2 RECALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	1	23.1	351.9 PPB
MTBE	2	28.0	463.2 PPB
TOLUENE	3	50.2	543.1 PPB
ETHYLBENZENE	4	55.2	801.6 PPB
MP XYLENE	5	180.3	748.9 PPB
O XYLENE	7	191.7	728.8 PPB
UNKNOWN	8	223.1	1.5 US

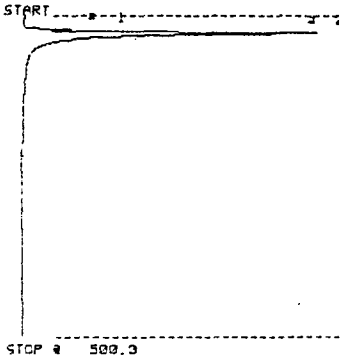
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 15:27
ANALYSIS # 16 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 2 RECALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	1	23.2	683.4 PPB
MTBE	2	27.5	958.6 PPB
TOLUENE	3	50.2	1.309 PPM
ETHYLBENZENE	4	55.3	2.117 PPM
MP XYLENE	5	180.3	1.975 PPM
O XYLENE	6	191.9	1.802 PPM
UNKNOWN	7	223.3	1.1 US

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 14:37
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 26 GARLAND ANGB
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	1	23.2	380.4 PPB
MTBE	2	27.9	266.0 PPB

PHOTOVAC

CALIBRATED PEAK 1,BENZENE

SAMPLE LIBRARY 1 JAN 18 1994 14:53
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 2 RECALIBRATION

COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	1	23.1	1000. PPB
MTBE	2	28.0	1.316 PPM
TOLUENE	3	50.2	1.542 PPM
ETHYLBENZENE	4	55.2	2.277 PPM
MP XYLENE	6	180.3	2.127 PPM
O XYLENE	7	191.7	2.070 PPM
UNKNOWN	8	223.1	1.5 US

PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 18 1994 15:41
ANALYSIS # 16 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 2 RECALIBRATION

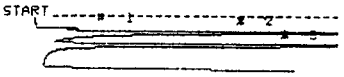
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.2	259.3 mUS
UNKNOWN	2	27.5	7.0 US
BENZENE	3	53.2	1.000 PPM
TOLUENE	4	55.3	1.000 PPM
ETHYLBENZENE	5	190.3	1.000 PPM
MP XYLENE	6	191.9	1.000 PPM
O XYLENE	7	223.3	1.000 PPM

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

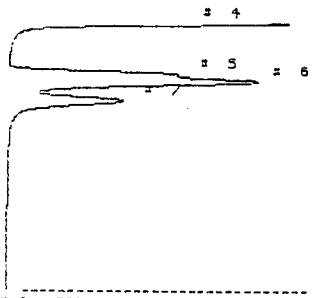
SITE: GARLAND ANGSI *WINDOW:* +/- 10
CONTRACT #: 1215-109 *CARRIER GAS FLOW:* 14cc/MIN

SAMPLE ID'S: BG-001BH

PHOTOVAC



3 COMPOUND ID # R.T. LIMIT



STOP @ 500.2
SAMPLE LIBRARY 1 JAN 20 1994 11:17
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STD BG 001

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	377.4 mVS
UNKNOWN	2	28.0	6.5 VS
UNKNOWN	3	46.0	6.7 VS
UNKNOWN	4	86.7	5.5 VS
UNKNOWN	5	167.3	4.4 VS
UNKNOWN	6	177.3	11.3 VS
UNKNOWN	7	207.1	6.3 VS

PHOTOVAC

1 COMPOUND ID # R.T. LIMIT

BENZENE	1	46.0	1.000 PPM
TOLUENE	2	86.7	1.000 PPM
THYLBENZENE	3	167.3	1.000 PPM
XYLENE	4	177.3	1.000 PPM
XYLENE	5	207.1	1.000 PPM

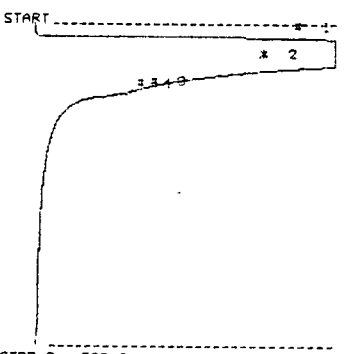
PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 JAN 20 1994 11:21
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STD BG 001

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	377.4 mVS
UNKNOWN	2	28.0	6.5 VS
BENZENE	3	46.0	1.000 PPM
TOLUENE	4	86.7	1000. PPB
ETHYLBENZENE	5	167.3	1000. PPB
MP XYLENE	6	177.3	1.200 PPM
O XYLENE	7	207.1	1.000 PPM

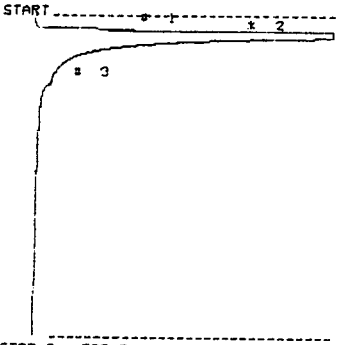
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 11:31
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.5	1.3 VS
BENZENE	2	44.8	15.02 PPM
UNKNOWN	3	102.6	970.7 mVS
UNKNOWN	4	111.4	4.8 VS

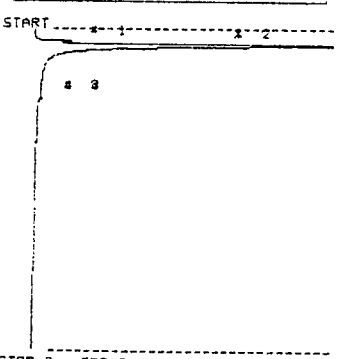
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 11:41
ANALYSIS # 16 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK RERUN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.7	604.5 mVS
UNKNOWN	2	33.1	32.4 VS

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 11:50
ANALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BG 0218H 0-2

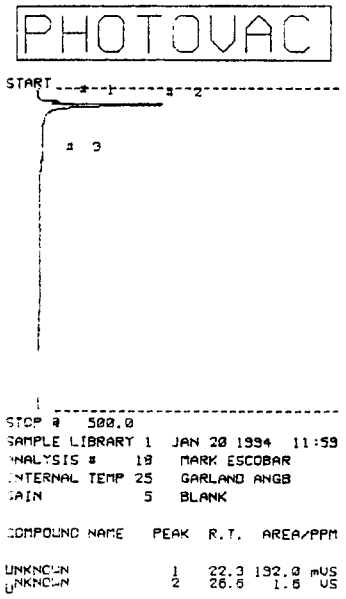
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	331.5 mVS
UNKNOWN	2	26.4	7.1 VS

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANGSI *WINDOW:* +/-10

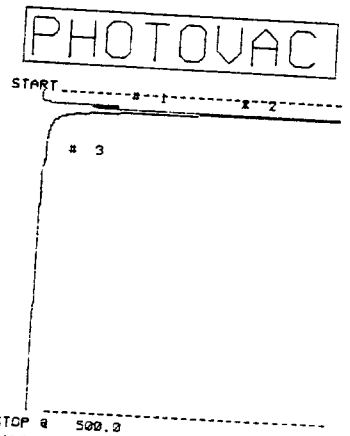
CONTRACT #: 135-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: BG-001BH



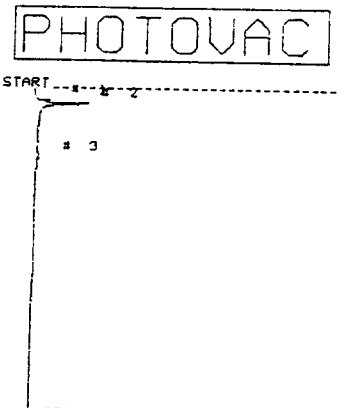
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 11:59
ANALYSIS # 19 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.3	192.0 mUS
UNKNOWN	2	26.6	1.6 US



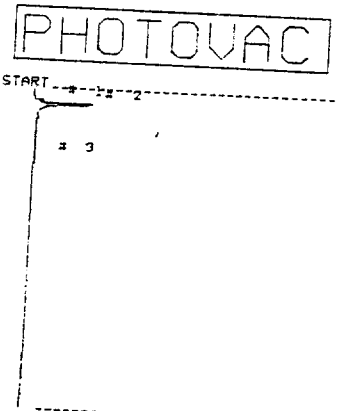
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 12:12
ANALYSIS # 20 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BG 001BH 4-5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.7	727.0 mUS
UNKNOWN	2	26.1	4.9 US



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 12:21
ANALYSIS # 21 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.5	129.9 mUS
UNKNOWN	2	25.8	573.5 mUS



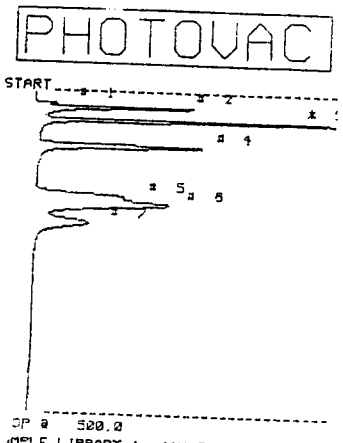
STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 12:38
ANALYSIS # 23 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BG 001BH 7-8

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	75.: mUS
UNKNOWN	2	26.2	645.7 mUS

PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

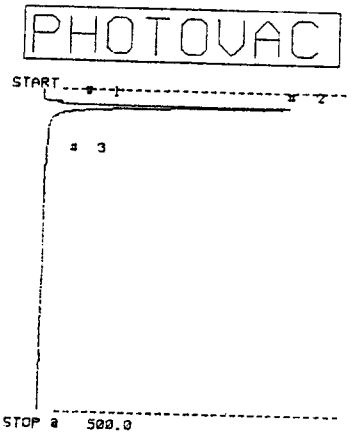
SITE: GARLAND ANGSI *WINDOW:* +/- 10
CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/min

SAMPLE ID'S: BG-002BH



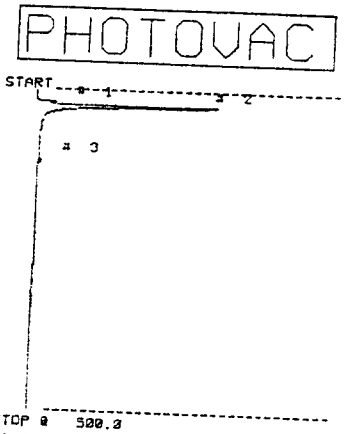
OP @ 500.0
MPLE LIBRARY 1 JAN 20 1994 13: 9
NALYSIS # 24 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 STD BG002

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.2	175.9 mVS
UNKNOWN	2	26.3	2.2 VS
UNKNOWN	3	46.0	3.3 VS
NKNOWN	4	86.6	3.1 VS
NKNOWN	5	166.9	2.3 VS
NKNOWN	6	177.3	5.5 VS
UNKNOWN	7	207.1	2.6 VS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 13:21
ANALYSIS # 25 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.0	145.3 mVS
UNKNOWN	2	26.2	3.9 VS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 13:41
ANALYSIS # 27 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 ~~BG 002BH 0-2~~ BLANK

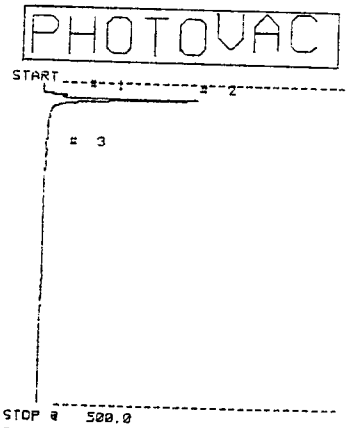
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.9	142.7 mVS
UNKNOWN	2	26.2	2.5 VS



IBRATED PEAK 3,BENZENE

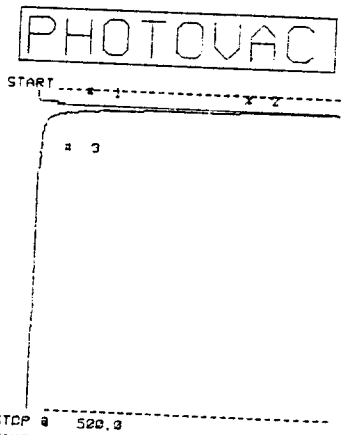
SAMPLE LIBRARY 1 JAN 20 1994 13:12
ANALYSIS # 24 MARK ESCOBAR
TERNAL TEMP 24 GARLAND ANGB
N 5 STD BG002

POUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.2	175.9 mVS
UNKNOWN	2	26.3	2.2 VS
BENZENE	3	46.0	1200. PPB
JENE	4	86.6	1000. PPB
YLBENZENE	5	166.9	1.000 PPM
XYLENE	6	177.3	1000. PPB
ENE	7	207.1	1000. PPB



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 13:31
ANALYSIS # 26 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BG 002BH 0-2

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.9	278.5 mVS
UNKNOWN	2	26.1	2.8 VS



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 20 1994 13:51
ANALYSIS # 28 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 BG 002BH 3-4

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.6	225.3 mVS
UNKNOWN	2	26.7	5.3 VS

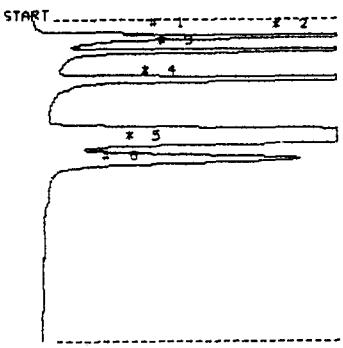
PHOTOVAC 10S SERIES
FIELD GC DATA RESULTS

SITE: GARLAND ANG SI *WINDOW:* +/- 10

CONTRACT #: 1315-109 *CARRIER GAS FLOW:* 14 cc/MIN

SAMPLE ID'S: STD RUNS

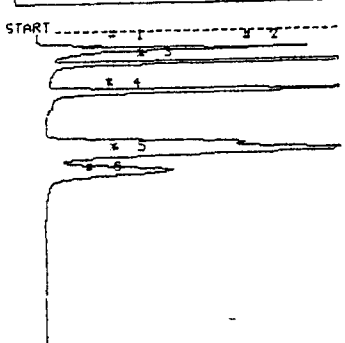
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 12:14
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	23.9	1.3	US
UNKNOWN	2	28.6	9.2	US
UNKNOWN	3	51.0	11.3	US
UNKNOWN	4	96.1	19.8	US
UNKNOWN	5	187.9	136.0	US
UNKNOWN	6	230.3	11.7	US

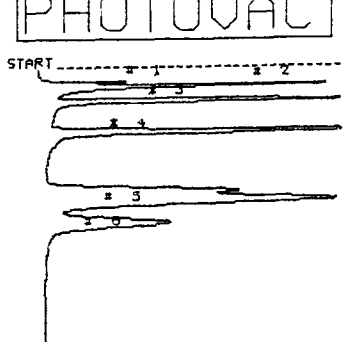
PHOTOVAC



STOP @ 800.0
SAMPLE LIBRARY 1 JAN 18 1994 12:30
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 24 GARLAND ANGB
GAIN 5 WORKING STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	24.1	696.8	mUS
UNKNOWN	2	28.7	5.8	US
UNKNOWN	3	51.0	8.2	US
UNKNOWN	4	98.1	10.9	US
UNKNOWN	5	138.0	19.3	US
UNKNOWN	6	231.9	6.1	US

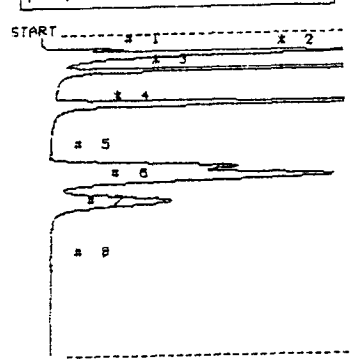
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 12:47
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 WORKING STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	24.9	982.8	mUS
UNKNOWN	2	29.9	5.6	US
UNKNOWN	3	53.7	9.0	US
UNKNOWN	4	104.6	11.9	US
UNKNOWN	5	220.9	20.5	US
UNKNOWN	6	259.0	6.5	US

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JAN 18 1994 12:59
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 25 GARLAND ANGB
GAIN 5 WORKING STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	25.9	925.0	mUS
UNKNOWN	2	31.7	10.8	US
UNKNOWN	3	57.7	9.4	US
UNKNOWN	4	113.3	12.3	US
UNKNOWN	5	190.9	246.3	mUS
UNKNOWN	6	235.1	21.4	US
UNKNOWN	7	275.6	7.8	US

APPENDIX C

SUMMARY OF ANALYTICAL RESULTS
REPORTS OF ANALYSES
CHAIN OF CUSTODY FORMS
DATA VALIDATION

Summary of Analytical Results for Metals/TPH Inorganic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	BG-001BH 1'-2'	BG-001BH 4'-5'	BG-001BH 7'-8'	BG-002BH 1'-2'	BG-002BH 4'-5'	BG-002BH 7'-8'
Total Arsenic	2.1U	2.1U	2.1U	2.1U	2.1U	2.1U
Total Antimony	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Total Beryllium	0.1U	1.3	0.5	0.1U	1.3	0.8
Total Cadmium	0.05	0.05	0.15	0.1	0.1	0.05
Total Chromium	15	21	7.7	21	18	15
Total Copper	11	11	3.4	11	7.4	9
Total Lead	8.9	11	3.3	14	10	3.7
Total Mercury	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Total Nickel	10	16	5.5	15	12	10
Total Selenium	0.8U	0.8U	0.8U	0.8U	0.8U	0.8U
Total Silver	0.15U	0.15U	0.15U	0.15U	0.15U	0.15U
Total Thallium	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Total Zinc	33	40	17	40	33	31
TPH	10U	10U	10U	10U	10U	10U

U-Compund analyzed but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-microgram/kilogram

Summary of Analytical Results for Metals/TPH Inorganic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-001BH 4.5'-5.5'	01-001BH 7'-8'	01-002BH 1'-2'	01-002BH 7'-8'	01-003BH 1'-3'	01-003BH 6'-8'
Total Arsenic	2.1U	2.1U	2.1U	2.1U	2.1U	2.1U
Total Antimony	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Total Beryllium	0.1U	0.1U	0.1U	0.1U	1.1	0.8
Total Cadmium	0.1	0.05	0.1	0.05	0.05U	0.05
Total Chromium	8.8	10	20	6.2	12	8.4
Total Copper	5.1	7.2	13	5.1	7.7	6.1
Total Lead	1.9	4.5	12	1.6	9.9	7.5
Total Mercury	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Total Nickel	8.6	12	16	9	14	13
Total Selenium	0.8U	0.8U	0.8U	0.8U	0.8U	0.8U
Total Silver	0.15U	0.15U	0.15U	0.15U	0.15U	0.15U
Total Thallium	0.1	0.1	0.2	0.1	0.05U	0.05U
Total Zinc	25	37	41	23	23	19
TPH	10U	10U	10U	10U	10U	10U

U-Compund analyzed but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-microgram/kilogram

Summary of Analytical Results for Metals/TPH Inorganic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-004BH 1'-2'	01-004BH 7'-8'	01-005BH 1'-2'	01-005BH 6'-8'	01-006BH 2'-3'	01-006BH 7'-8'
Total Arsenic	2.1U	2.1U	2.1U	2.1U	2.1U	2.1U
Total Antimony	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Total Beryllium	0.1U	0.9	0.8	0.1	1.2	0.1U
Total Cadmium	0.05	0.05	1.3	0.05	0.05	0.05U
Total Chromium	18	13	15	5.7	15	15
Total Copper	10	6.7	20	4	11	7
Total Lead	14	5.5	26	4.1	13	4.1
Total Mercury	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Total Nickel	16	14	16	6.9	15	12
Total Selenium	0.8U	0.8U	0.8U	0.8U	0.8U	0.8U
Total Silver	0.15U	0.15U	0.9	0.15U	0.15U	0.15U
Total Thallium	0.05U	0.05U	0.1	0.05U	0.05U	0.05U
Total Zinc	39	40	51	22	30	39
TPH	10U	10U	10U	10U	10U	10U

U-Compund analyzed but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-microgram/kilogram

Summary of Analytical Results for Metals/TPH Inorganic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-007BH 2'-3'	01-007BH 7'-8'	01-008BH 2'-3'	01-008BH 7'-8'	01-009BH 4'-5'	01-009BH 9'-10'
Total Arsenic	2.1U	2.1U	2.1U	2.1U	2.1U	2.1U
Total Antimony	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Total Beryllium	1	0.1U	1.2	0.95	1.3	0.8
Total Cadmium	0.05U	0.05U	0.05	0.05U	0.15	0.1
Total Chromium	12	6.2	20	14	21	12
Total Copper	8.3	5.1	12	23	9.2	7.1
Total Lead	8.4	2.6	9.4	7.9	15	4.4
Total Mercury	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Total Nickel	11	9.6	16	11	13	7.7
Total Selenium	0.8U	0.8U	0.8U	0.8U	0.8U	0.8U
Total Silver	0.15U	0.15U	0.15U	0.15U	0.55	0.15U
Total Thallium	0.05U	0.05U	0.05U	0.05U	0.15	0.05
Total Zinc	26	23	40	36	44	25
TPH	10U	10U	20	10U	10U	10U

U-Compund analyzed but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-microgram/kilogram

Summary of Analytical Results for Metals/TPH Inorganic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-010BH 3'-4'	01-010BH 9'-10'	01-011BH 2'-3'	01-011BH 10'-12'
Total Arsenic	2.1U	2.1U	2.1U	2.1U
Total Antimony	1.1U	1.1U	1.1U	1.1U
Total Beryllium	0.8	1.1	1	1.1
Total Cadmium	0.05	0.05	0.1	0.1
Total Chromium	10	17	14	16
Total Copper	4.4	9.7	9	9.6
Total Lead	2.2	6.2	4.8	9.5
Total Mercury	0.1U	0.1U	0.1U	0.1U
Total Nickel	7.3	9.4	9.8	11
Total Selenium	0.8U	0.8U	0.8U	0.8U
Total Silver	0.15U	0.15U	0.15U	0.15U
Total Thallium	0.05U	0.05U	0.1	0.05U
Total Zinc	22	29	31	30
TPH	10U	10U	10U	10U

U-Compund analyzed but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-microgram/kilogram

Summary of Analytical Results for Metals/TPH Inorganic Compounds Detected in QA/QC Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	Equipment Blank-1	Equipment Blank-2	Field Blank-1	Field Blank-2
Total Arsenic	0.002U	0.002U	0.002U	0.002U
Total Antimony	0.023U	0.023U	0.023U	0.023U
Total Beryllium	0.002U	0.002U	0.002U	0.002U
Total Cadmium	0.0006U	0.0006U	0.0006U	0.0006U
Total Chromium	0.008	0.002	0.01	0.018
Total Copper	0.005U	0.007	0.013	0.005U
Total Lead	0.014	0.019	0.002U	0.019
Total Mercury	0.0005U	0.0005U	0.0005U	0.0005U
Total Nickel	0.008U	0.008U	0.052	0.016
Total Selenium	0.002	0.006	0.008	0.002U
Total Silver	0.003U	0.003U	0.003U	0.003U
Total Thallium	0.001U	0.001U	0.003	0.001U
Total Zinc	0.012	0.022	0.032	0.018
TPH	0.5U	0.5U	0.5U	0.5U

U-Compund analyzed but not detected. Number indicates the DL.

QA/QC-Quality Assurance/Quality Control
ug/kg-microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	BG-001BH 1'-2'	BG-001BH 4'-5'	BG-001BH 7'-8'	BG-002BH 1'-2'	BG-002BH 4'-5'	BG-002BH 7'-8'
Phenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
bis(2-Chloroethyl)ether	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2-Chlorophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,3-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzyl Alcohol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
1,2-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Bis(2-Chloroisopropyl)ether	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
3 & 4-Methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
N-Nitros-Di-N-propylamine	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
Hexachloroethane	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Nitrobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Isophorone	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2-Nitrophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2,4-Dimethylphenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Benzoic Acid	2U	2U	2U	2U	2U	2U
bis(2-Chloroethoxy)methane	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2,4-Dichlorophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,2,4-Trichlorobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Naphthalene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chloroaniline	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Hexachlorobutadiene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chloro-3-methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2-Methylnaphthalene	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
Hexachlorocyclopentadiene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4,6-Trichlorophenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4,5-Trichlorophenol	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U
2-Chloronaphthalene	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
2-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Dimethyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	BG-001BH 1'-2'	BG-001BH 4'-5'	BG-001BH 7'-8'	BG-002BH 1'-2'	BG-002BH 4'-5'	BG-002BH 7'-8'
Acenaphthylene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Acenaphthene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4-Dinitrophenol	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
4-Nitrophenol	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Dibenzofuran	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,6-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chlorophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Fluorene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
4,6-Dinitro-2-methylphenol	2U	2U	2U	2U	2U	2U
N-Nitroso-di-n-phenylamine	0.89U	0.89U	0.89U	0.89U	0.89U	0.89U
4-Bromophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Hexachlorobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Pentachlorophenol	1U	1U	1U	1U	1U	1U
Phenanthrene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Di-n-butylphthalate	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Fluoranthene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Pyrene	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Butyl benzyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3,3'-Dichlorobenzidine	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U
Benzo(a)anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
bis(2-ethylhexyl)phthalate	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Chrysene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Di-n-octyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Benzo(b)fluoranthene	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U
Benzo(k)fluoranthene	0.82U	0.82U	0.82U	0.82U	0.82U	0.82U
Benzo(a)pyrene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Indeno(1,2,3-cd)pyrene	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Dibenz(a,h)anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Benzo(g,h,i)perylene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-001BH 4.5'-5.5'	01-001BH 7'-8'	01-002BH 1'-2'	01-002BH 7'-8'	01-003BH 1'-3'	01-003BH 6'-8'
Phenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
bis(2-Chloroethyl)ether	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2-Chlorophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,3-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzyl Alcohol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
1,2-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Bis(2-Chloroisopropyl)ether	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
3 & 4-Methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
N-Nitros-Di-N-propylamine	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
Hexachloroethane	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Nitrobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Isophorone	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2-Nitrophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2,4-Dimethylphenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Benzoic Acid	2U	2U	2U	2U	2U	2U
bis(2-Chloroethoxy)methane	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2,4-Dichlorophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,2,4-Trichlorobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Naphthalene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chloroaniline	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Hexachlorobutadiene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chloro-3-methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2-Methylnaphthalene	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
Hexachlorocyclopentadiene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4,6-Trichlorophenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4,5-Trichlorophenol	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U
2-Chloronaphthalene	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
2-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Dimethyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-001BH 4.5'-5.5'	01-001BH 7'-8'	01-002BH 1'-2'	01-002BH 7'-8'	01-003BH 1'-3'	01-003BH 6'-8'
Acenaphthylene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Acenaphthene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4-Dinitrophenol	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
4-Nitrophenol	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Dibenzofuran	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,6-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chlorophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Fluorene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
4,6-Dinitro-2-methylphenol	2U	2U	2U	2U	2U	2U
N-Nitroso-di-n-phenylamine	0.89U	0.89U	0.89U	0.89U	0.89U	0.89U
4-Bromophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Hexachlorobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Pentachlorophenol	1U	1U	1U	1U	1U	1U
Phenanthrene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Di-n-butylphthalate	0.46	0.4U	0.4U	0.4U	0.4U	0.64
Fluoranthene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Pyrene	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Butyl benzyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3,3'-Dichlorobenzidine	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U
Benzo(a)anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
bis(2-ethylhexyl)phthalate	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Chrysene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Di-n-octyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Benzo(b)fluoranthene	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U
Benzo(k)fluoranthene	0.82U	0.82U	0.82U	0.82U	0.82U	0.82U
Benzo(a)pyrene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Indeno(1,2,3-cd)pyrene	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Dibenz(a,h)anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Benzo(g,h,i)perylene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-004BH 1'2'	01-004BH 7'-8'	01-005BH 1'-2'	01-005BH 6'-8'	01-006BH2'-3'	01-006BH 7'-8'	
Phenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
bis(2-Chloroethyl)ether	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
2-Chlorophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
1,3-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	
1,4-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	
Benzyl Alcohol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
1,2-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	
2-Methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Bis(2-Chloroisopropyl)ether	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
3 & 4-Methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
N-Nitros-Di-N-propylamine	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U	
Hexachloroethane	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Nitrobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Isophorone	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
2-Nitrophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
2,4-Dimethylphenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
Benzoic Acid	2U	2U	2U	2U	2U	2U	
bis(2-Chloroethoxy)methane	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
2,4-Dichlorophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
1,2,4-Trichlorobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Naphthalene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
4-Chloroaniline	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
Hexachlorobutadiene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
4-Chloro-3-methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
2-Methylnaphthalene	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U	
Hexachlorocyclopentadiene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
2,4,6-Trichlorophenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
2,4,5-Trichlorophenol	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U	
2-Chloronaphthalene	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U	
2-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	
Dimethyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-004BH 1'2'	01-004BH 7'-8'	01-005BH 1'-2'	01-005BH 6'-8'	01-006BH2'-3'	01-006BH 7'-8'	
Acenaphthylene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
3-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	
Acenaphthene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
2,4-Dinitrophenol	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	
4-Nitrophenol	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	
Dibenzofuran	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
2,4-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
2,6-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
4-Chlorophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Fluorene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
4-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	
4,6-Dinitro-2-methylphenol	2U	2U	2U	2U	2U	2U	
N-Nitroso-di-n-phenylamine	0.89U	0.89U	0.89U	0.89U	0.89U	0.89U	
4-Bromophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Hexachlorobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Pentachlorophenol	1U	1U	1U	1U	1U	1U	
Phenanthrene	0.44	0.33U	0.33U	0.33U	0.33U	0.33U	
Anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Di-n-butylphthalate	0.53	0.45	0.4U	0.4U	0.6	0.55	
Fluoranthene	0.54	0.33U	0.33U	0.33U	0.33U	0.33U	
Pyrene	0.48	0.4U	0.4U	0.4U	0.4U	0.4U	
Butyl benzyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
3,3'-Dichlorobenzidine	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U	
Benzo(a)anthracene	0.34	0.33U	0.33U	0.33U	0.33U	0.33U	
bis(2-ethylhexyl)phthalate	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
Chrysene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Di-n-octyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Benzo(b)fluoranthene	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	
Benzo(k)fluoranthene	0.82U	0.82U	0.82U	0.82U	0.82U	0.82U	
Benzo(a)pyrene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Indeno(1,2,3-cd)pyrene	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	
Dibenz(a,h)anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	
Benzo(g,h,i)perylene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	

U-Compund analyzed for but not detected. Number indicates the DL.
***J-Compound detected below the detection limit.* Number indicates the concentration detected.**

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-007BH 2'-3'	01-007BH 7'-8'	01-008BH 2'-3'	01-008BH 7'-8'	01-009BH 4'-5'	01-009BH 9'-10'
Phenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
bis(2-Chloroethyl)ether	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2-Chlorophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,3-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzyl Alcohol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
1,2-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Bis(2-Chloroisopropyl)ether	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
3 & 4-Methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
N-Nitros-Di-N-propylamine	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
Hexachloroethane	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Nitrobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Isophorone	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2-Nitrophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2,4-Dimethylphenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Benzoic Acid	2U	2U	2U	2U	2U	2U
bis(2-Chloroethoxy)methane	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
2,4-Dichlorophenol	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,2,4-Trichlorobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Naphthalene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chloroaniline	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Hexachlorobutadiene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chloro-3-methylphenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2-Methylnaphthalene	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
Hexachlorocyclopentadiene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4,6-Trichlorophenol	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4,5-Trichlorophenol	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U
2-Chloronaphthalene	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
2-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Dimethyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-007BH 2'-3'	01-007BH 7'-8'	01-008BH 2'-3'	01-008BH 7'-8'	01-009BH 4'-5'	01-009BH 9'-10'
Acenaphthylene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Acenaphthene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4-Dinitrophenol	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
4-Nitrophenol	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Dibenzofuran	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,4-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
2,6-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Chlorophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Fluorene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
4-Nitroaniline	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
4,6-Dinitro-2-methylphenol	2U	2U	2U	2U	2U	2U
N-Nitroso-di-n-phenylamine	0.89U	0.89U	0.89U	0.89U	0.89U	0.89U
4-Bromophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Hexachlorobenzene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Pentachlorophenol	1U	1U	1U	1U	1U	1U
Phenanthrene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Di-n-butylphthalate	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Fluoranthene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Pyrene	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Butyl benzyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3,3'-Dichlorobenzidine	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U
Benzo(a)anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
bis(2-ethylhexyl)phthalate	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Chrysene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Di-n-octyl phthalate	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Benzo(b)fluoranthene	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U
Benzo(k)fluoranthene	0.82U	0.82U	0.82U	0.82U	0.82U	0.82U
Benzo(a)pyrene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Indeno(1,2,3-cd)pyrene	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
Dibenz(a,h)anthracene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Benzo(g,h,i)perylene	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-010BH 3'-4'	01-010BH 9'-10'	01-011BH 2'-3'	01-011BH 10'-12'
Phenol	0.4U	0.4U	0.4U	0.4U
bis(2-Chloroethyl)ether	0.4U	0.4U	0.4U	0.4U
2-Chlorophenol	0.4U	0.4U	0.4U	0.4U
1,3-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U
Benzyl Alcohol	0.33U	0.33U	0.33U	0.33U
1,2-Dichlorobenzene	0.2U	0.2U	0.2U	0.2U
2-Methylphenol	0.33U	0.33U	0.33U	0.33U
Bis(2-Chloroisopropyl)ether	0.4U	0.4U	0.4U	0.4U
3 & 4-Methylphenol	0.33U	0.33U	0.33U	0.33U
N-Nitros-Di-N-propylamine	0.7U	0.7U	0.7U	0.7U
Hexachloroethane	0.33U	0.33U	0.33U	0.33U
Nitrobenzene	0.33U	0.33U	0.33U	0.33U
Isophorone	0.33U	0.33U	0.33U	0.33U
2-Nitrophenol	0.4U	0.4U	0.4U	0.4U
2,4-Dimethylphenol	0.4U	0.4U	0.4U	0.4U
Benzoic Acid	2U	2U	2U	2U
bis(2-Chloroethoxy)methane	0.4U	0.4U	0.4U	0.4U
2,4-Dichlorophenol	0.4U	0.4U	0.4U	0.4U
1,2,4-Trichlorobenzene	0.33U	0.33U	0.33U	0.33U
Naphthalene	0.33U	0.33U	0.33U	0.33U
4-Chloroaniline	0.4U	0.4U	0.4U	0.4U
Hexachlorobutadiene	0.33U	0.33U	0.33U	0.33U
4-Chloro-3-methylphenol	0.33U	0.33U	0.33U	0.33U
2-Methylnaphthalene	0.7U	0.7U	0.7U	0.7U
Hexachlorocyclopentadiene	0.33U	0.33U	0.33U	0.33U
2,4,6-Trichlorophenol	0.33U	0.33U	0.33U	0.33U
2,4,5-Trichlorophenol	1.6U	1.6U	1.6U	1.6U
2-Chloronaphthalene	0.7U	0.7U	0.7U	0.7U
2-Nitroaniline	1.7U	1.7U	1.7U	1.7U
Dimethyl phthalate	0.33U	0.33U	0.33U	0.33U

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-010BH 3'-4'	01-010BH 9'-10'	01-011BH 2'-3'	01-011BH 10'-12'
Acenaphthylene	0.33U	0.33U	0.33U	0.33U
3-Nitroaniline	1.7U	1.7U	1.7U	1.7U
Acenaphthene	0.33U	0.33U	0.33U	0.33U
2,4-Dinitrophenol	1.7U	1.7U	1.7U	1.7U
4-Nitrophenol	1.7U	1.7U	1.7U	1.7U
Dibenzofuran	0.33U	0.33U	0.33U	0.33U
2,4-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U
2,6-Dinitrotoluene	0.33U	0.33U	0.33U	0.33U
4-Chlorophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U
Fluorene	0.33U	0.33U	0.33U	0.33U
4-Nitroaniline	1.7U	1.7U	1.7U	1.7U
4,6-Dinitro-2-methylphenol	2U	2U	2U	2U
N-Nitroso-di-n-phenylamine	0.89U	0.89U	0.89U	0.89U
4-Bromophenyl phenyl ether	0.33U	0.33U	0.33U	0.33U
Hexachlorobenzene	0.33U	0.33U	0.33U	0.33U
Pentachlorophenol	1U	1U	1U	1U
Phenanthrene	0.33U	0.33U	0.33U	0.33U
Anthracene	0.33U	0.33U	0.33U	0.33U
Di-n-butylphthalate	0.4U	0.4U	0.4U	0.4U
Fluoranthene	0.33U	0.33U	0.33U	0.33U
Pyrene	0.4U	0.4U	0.4U	0.4U
Butyl benzyl phthalate	0.33U	0.33U	0.33U	0.33U
3,3'-Dichlorobenzidine	1.6U	1.6U	1.6U	1.6U
Benzo(a)anthracene	0.33U	0.33U	0.33U	0.33U
bis(2-ethylhexyl)phthalate	0.4U	0.4U	0.4U	0.4U
Chrysene	0.33U	0.33U	0.33U	0.33U
Di-n-octyl phthalate	0.33U	0.33U	0.33U	0.33U
Benzo(b)fluoranthene	0.81U	0.81U	0.81U	0.81U
Benzo(k)fluoranthene	0.82U	0.82U	0.82U	0.82U
Benzo(a)pyrene	0.33U	0.33U	0.33U	0.33U
Indeno(1,2,3-cd)pyrene	0.4U	0.4U	0.4U	0.4U
Dibenz(a,h)anthracene	0.33U	0.33U	0.33U	0.33U
Benzo(g,h,i)perylene	0.33U	0.33U	0.33U	0.33U

U-Compund analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in QA/QC Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	Equipment Blank-1	Equipment Blank-2	Field Blank-1	Field Blank-2
Phenol	10U	10U	10U	10U
bis(2-Chloroethyl)ether	10U	10U	10U	10U
2-Chlorophenol	10U	10U	10U	10U
1,3-Dichlorobenzene	10U	10U	10U	10U
1,4-Dichlorobenzene	10U	10U	10U	10U
Benzyl Alcohol	10U	10U	10U	10U
1,2-Dichlorobenzene	10U	10U	10U	10U
2-Methylphenol	10U	10U	10U	10U
Bis(2-Chloroisopropyl)ether	10U	10U	10U	10U
3 & 4-Methylphenol	10U	10U	10U	10U
N-Nitros-Di-N-propylamine	20U	20U	20U	20U
Hexachloroethane	10U	10U	10U	10U
Nitrobenzene	10U	10U	10U	10U
Isophorone	10U	10U	10U	10U
2-Nitrophenol	10U	10U	10U	10U
2,4-Dimethylphenol	10U	10U	10U	10U
Benzoic Acid	50U	50U	50U	50U
bis(2-Chloroethoxy)methane	10U	10U	10U	10U
2,4-Dichlorophenol	10U	10U	10U	10U
1,2,4-Trichlorobenzene	10U	10U	10U	10U
Naphthalene	10U	10U	10U	10U
4-Chloroaniline	10U	10U	10U	10U
Hexachlorobutadiene	10U	10U	10U	10U
4-Chloro-3-methylphenol	10U	10U	10U	10U
2-Methylnaphthalene	20U	20U	20U	20U
Hexachlorocyclopentadiene	10U	10U	10U	10U
2,4,6-Trichlorophenol	10U	10U	10U	10U
2,4,5-Trichlorophenol	50U	50U	50U	50U
2-Chloronaphthalene	20U	20U	20U	20U
2-Nitroaniline	50U	50U	50U	50U
Dimethyl phthalate	10U	10U	10U	10U

U-Compund analyzed for but not detected. Number indicates the DL.

QA/QC-Quality Assurance/Quality Control
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Semivolatile Organic Compounds Detected in QA/QC Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	Equipment Blank-1	Equipment Blank-2	Field Blank-1	Field Blank-2
Acenaphthylene	10U	10U	10U	10U
3-Nitroaniline	50U	50U	50U	50U
Acenaphthene	10U	10U	10U	10U
2,4-Dinitrophenol	50U	50U	50U	50U
4-Nitrophenol	50U	50U	50U	50U
Dibenzofuran	10U	10U	10U	10U
2,4-Dinitrotoluene	10U	10U	10U	10U
2,6-Dinitrotoluene	10U	10U	10U	10U
4-Chlorophenyl phenyl ether	10U	10U	10U	10U
Fluorene	10U	10U	10U	10U
4-Nitroaniline	50U	50U	50U	50U
4,6-Dinitro-2-methylphenol	50U	50U	50U	50U
N-Nitroso-di-n-phenylamine	10U	10U	10U	10U
4-Bromophenyl phenyl ether	10U	10U	10U	10U
Hexachlorobenzene	10U	10U	10U	10U
Pentachlorophenol	30U	30U	30U	30U
Phenanthrene	10U	10U	10U	10U
Anthracene	10U	10U	10U	10U
Di-n-butylphthalate	10U	10U	10U	10U
Fluoranthene	10U	10U	10U	10U
Pyrene	10U	10U	10U	10U
Butyl benzyl phthalate	10U	10U	10U	10U
3,3'-Dichlorobenzidine	20U	20U	20U	20U
Benzo(a)anthracene	10U	10U	10U	10U
bis(2-ethylhexyl)phthalate	10U	10U	10U	10U
Chrysene	10U	10U	10U	10U
Di-n-octyl phthalate	10U	10U	10U	10U
Benzo(b)fluoranthene	10U	10U	10U	10U
Benzo(k)fluoranthene	10U	10U	10U	10U
Benzo(a)pyrene	10U	10U	10U	10U
Indeno(1,2,3-cd)pyrene	10U	10U	10U	10U
Dibenz(a,h)anthracene	10U	10U	10U	10U
Benzo(g,h,i)perylene	10U	10U	10U	10U

U-Compund analyzed for but not detected. Number indicates the DL.

QA/QC-Quality Assurance/Quality Control
ug/kg-Results in microgram/kilogram

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 2/1/94
Chemron Sample #: 33573
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-001BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	0.85	0.33	mg/kg	1/26/94	8260
Acrolein	<0.015	0.015	mg/kg	1/26/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/26/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/26/94	8260
Benzene	<0.009	0.009	mg/kg	1/26/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/26/94	8260
Bromoform	<0.006	0.006	mg/kg	1/26/94	8260
Bromomethane	<0.018	0.018	mg/kg	1/26/94	8260
2-Butanone (MEK)	<0.030	0.030	mg/kg	1/26/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/26/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/26/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/26/94	8260
2-Chloroethyl vinyl ether	<0.030	0.030	mg/kg	1/26/94	8260
Chloroform	<0.009	0.009	mg/kg	1/26/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/26/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.018	0.018	mg/kg	1/26/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/26/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/26/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/26/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/26/94	8260
1,4-Dichlorobenzene	<0.018	0.018	mg/kg	1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/26/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/26/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/26/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/26/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/26/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/26/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/26/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/26/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/26/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/26/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/26/94	8260
2-Hexanone	<0.018	0.018	mg/kg	1/26/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/26/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/26/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/26/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.030	0.030	mg/kg	1/26/94	8260
Propionitrile	<0.030	0.030	mg/kg	1/26/94	8260
Styrene	<0.012	0.012	mg/kg	1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/26/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 2/1/94
Chemron Sample #: 33573
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-001BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/26/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/26/94	8260
Toluene	<0.068	0.068	mg/kg	1/26/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/26/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/26/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/26/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/26/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/26/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/26/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/26/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/26/94	8260

Approved by: R. Ackman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33574
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-002BH 1-2

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.36	0.36	mg/kg	1/24/94	8260
Acrolein	<0.017	0.017	mg/kg	1/24/94	8260
Acrylonitrile	<0.013	0.013	mg/kg	1/24/94	8260
Allyl chloride	<0.010	0.010	mg/kg	1/24/94	8260
Benzene	<0.010	0.010	mg/kg	1/24/94	8260
Bromodichloromethane	<0.010	0.010	mg/kg	1/24/94	8260
Bromoform	<0.007	0.007	mg/kg	1/24/94	8260
Bromomethane	<0.020	0.020	mg/kg	1/24/94	8260
2-Butanone (MEK)	<0.033	0.033	mg/kg	1/24/94	8260
Carbon tetrachloride	<0.010	0.010	mg/kg	1/24/94	8260
Chlorobenzene	<0.013	0.013	mg/kg	1/24/94	8260
Chloroethane	<0.007	0.007	mg/kg	1/24/94	8260
2-Chloroethyl vinyl ether	<0.033	0.033	mg/kg	1/24/94	8260
Chloroform	<0.010	0.010	mg/kg	1/24/94	8260
Chloromethane	<0.017	0.017	mg/kg	1/24/94	8260
Dibromochloromethane	<0.010	0.010	mg/kg	1/24/94	8260
1,2-Dibromo-3-chloropropane	<0.020	0.020	mg/kg	1/24/94	8260
1,2-Dibromoethane	<0.010	0.010	mg/kg	1/24/94	8260
Dibromomethane	<0.007	0.007	mg/kg	1/24/94	8260
1,2-Dichlorobenzene	<0.017	0.017	mg/kg	1/24/94	8260
1,3-Dichlorobenzene	<0.017	0.017	mg/kg	1/24/94	8260
1,4-Dichlorobenzene	<0.020	0.020	mg/kg	1/24/94	8260
trans-1,4-Dichloro-2-butene	<0.013	0.013	mg/kg	1/24/94	8260
Dichlorodifluoromethane	<0.010	0.010	mg/kg	1/24/94	8260
1,1-Dichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
1,2-Dichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
1,1-Dichloroethene	<0.017	0.017	mg/kg	1/24/94	8260
cis-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/24/94	8260
trans-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/24/94	8260
1,2-Dichloropropane	<0.007	0.007	mg/kg	1/24/94	8260
cis-1,3-Dichloropropene	<0.007	0.007	mg/kg	1/24/94	8260
trans-1,3-Dichloropropene	<0.010	0.010	mg/kg	1/24/94	8260
Diethyl ether	<0.017	0.017	mg/kg	1/24/94	8260
Ethylbenzene	<0.017	0.017	mg/kg	1/24/94	8260
Ethylmethacrylate	<0.017	0.017	mg/kg	1/24/94	8260
2-Hexanone	<0.020	0.020	mg/kg	1/24/94	8260
Iodomethane	<0.017	0.017	mg/kg	1/24/94	8260
Methacrylonitrile	<0.017	0.017	mg/kg	1/24/94	8260
Methylene chloride	<0.013	0.013	mg/kg	1/24/94	8260
Methylmethacrylate	<0.013	0.013	mg/kg	1/24/94	8260
4-Methyl-2-pentanone (MIBK)	<0.033	0.033	mg/kg	1/24/94	8260
Propionitrile	<0.033	0.033	mg/kg	1/24/94	8260
Styrene	<0.013	0.013	mg/kg	1/24/94	8260
1,1,1,2-Tetrachloroethane	<0.017	0.017	mg/kg	1/24/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33574
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-002BH 1-2

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.010	0.010	mg/kg	1/24/94	8260
Tetrachloroethene	<0.017	0.017	mg/kg	1/24/94	8260
Toluene	<0.075	0.075	mg/kg	1/24/94	8260
1,1,1-Trichloroethane	<0.017	0.017	mg/kg	1/24/94	8260
1,1,2-Trichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
Trichloroethene	<0.007	0.007	mg/kg	1/24/94	8260
Trichlorofluoromethane	<0.017	0.017	mg/kg	1/24/94	8260
1,2,3-Trichloropropane	<0.010	0.010	mg/kg	1/24/94	8260
m,p-Xylene	<0.017	0.017	mg/kg	1/24/94	8260
o-Xylene	<0.013	0.013	mg/kg	1/24/94	8260
Vinyl Chloride	<0.007	0.007	mg/kg	1/24/94	8260
Carbon disulfide	<0.017	0.017	mg/kg	1/24/94	8260

Approved by: R. Adcock

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33575
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-002BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.31	0.31	mg/kg	1/24/94	8260
Acrolein	<0.014	0.014	mg/kg	1/24/94	8260
Acrylonitrile	<0.011	0.011	mg/kg	1/24/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/24/94	8260
Benzene	<0.008	0.008	mg/kg	1/24/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/24/94	8260
Bromoform	<0.006	0.006	mg/kg	1/24/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/24/94	8260
2-Butanone (MEK)	<0.028	0.028	mg/kg	1/24/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/24/94	8260
Chlorobenzene	<0.011	0.011	mg/kg	1/24/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/24/94	8260
2-Chloroethyl vinyl ether	<0.028	0.028	mg/kg	1/24/94	8260
Chloroform	<0.008	0.008	mg/kg	1/24/94	8260
Chloromethane	<0.014	0.014	mg/kg	1/24/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/24/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/24/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/24/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/24/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg	1/24/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg	1/24/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/24/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg	1/24/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/24/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/24/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/24/94	8260
1,1-Dichloroethene	<0.014	0.014	mg/kg	1/24/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/24/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/24/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/24/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/24/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/24/94	8260
Diethyl ether	<0.014	0.014	mg/kg	1/24/94	8260
Ethylbenzene	<0.014	0.014	mg/kg	1/24/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg	1/24/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/24/94	8260
Iodomethane	<0.014	0.014	mg/kg	1/24/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg	1/24/94	8260
Methylene chloride	<0.011	0.011	mg/kg	1/24/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg	1/24/94	8260
4-Methyl-2-pentanone (MIBK)	<0.028	0.028	mg/kg	1/24/94	8260
Propionitrile	<0.028	0.028	mg/kg	1/24/94	8260
Styrene	<0.011	0.011	mg/kg	1/24/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg	1/24/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33575
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-002BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/24/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg	1/24/94	8260
Toluene	<0.060	0.060	mg/kg	1/24/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg	1/24/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/24/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/24/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg	1/24/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/24/94	8260
m,p-Xylene	<0.014	0.014	mg/kg	1/24/94	8260
o-Xylene	<0.011	0.011	mg/kg	1/24/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/24/94	8260
Carbon disulfide	<0.014	0.014	mg/kg	1/24/94	8260

Approved by: R. Aaron

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33563
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-003BH 1-3

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.32	0.32	mg/kg	1/23/94	8260
Acrolein	<0.015	0.015	mg/kg	1/23/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/23/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/23/94	8260
Benzene	<0.009	0.009	mg/kg	1/23/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/23/94	8260
Bromoform	<0.006	0.006	mg/kg	1/23/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/23/94	8260
2-Butanone (MEK)	<0.029	0.029	mg/kg	1/23/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/23/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/23/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/23/94	8260
2-Chloroethyl vinyl ether	<0.029	0.029	mg/kg	1/23/94	8260
Chloroform	<0.009	0.009	mg/kg	1/23/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/23/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/23/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/23/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/23/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/23/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/23/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/23/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/23/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/23/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/23/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/23/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/23/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/23/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/23/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/23/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/23/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/23/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/23/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/23/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/23/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/23/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/23/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/23/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/23/94	8260
4-Methyl-2-pentanone (MIBK)	<0.029	0.029	mg/kg	1/23/94	8260
Propionitrile	<0.029	0.029	mg/kg	1/23/94	8260
Styrene	<0.012	0.012	mg/kg	1/23/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/23/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33563
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-003BH 1-3

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/23/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/23/94	8260
Toluene	<0.068	0.068	mg/kg	1/23/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/23/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/23/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/23/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/23/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/23/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/23/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/23/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/23/94	8260

Approved by: N. Aldaman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33564
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-003BH 6-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.31	0.31	mg/kg	1/23/94	8260
Acrolein	<0.014	0.014	mg/kg	1/23/94	8260
Acrylonitrile	<0.011	0.011	mg/kg	1/23/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/23/94	8260
Benzene	<0.008	0.008	mg/kg	1/23/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/23/94	8260
Bromoform	<0.006	0.006	mg/kg	1/23/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/23/94	8260
2-Butanone (MEK)	<0.028	0.028	mg/kg	1/23/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/23/94	8260
Chlorobenzene	<0.011	0.011	mg/kg	1/23/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/23/94	8260
2-Chloroethyl vinyl ether	<0.028	0.028	mg/kg	1/23/94	8260
Chloroform	<0.008	0.008	mg/kg	1/23/94	8260
Chloromethane	<0.014	0.014	mg/kg	1/23/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/23/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/23/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/23/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/23/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg	1/23/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg	1/23/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/23/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg	1/23/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/23/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/23/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/23/94	8260
1,1-Dichloroethene	<0.014	0.014	mg/kg	1/23/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/23/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/23/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/23/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/23/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/23/94	8260
Diethyl ether	<0.014	0.014	mg/kg	1/23/94	8260
Ethylbenzene	<0.014	0.014	mg/kg	1/23/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg	1/23/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/23/94	8260
Iodomethane	<0.014	0.014	mg/kg	1/23/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg	1/23/94	8260
Methylene chloride	<0.011	0.011	mg/kg	1/23/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg	1/23/94	8260
4-Methyl-2-pentanone (MIBK)	<0.028	0.028	mg/kg	1/23/94	8260
Propionitrile	<0.028	0.028	mg/kg	1/23/94	8260
Styrene	<0.011	0.011	mg/kg	1/23/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg	1/23/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33564
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-003BH 6-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/23/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg	1/23/94	8260
Toluene	<0.060	0.060	mg/kg	1/23/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg	1/23/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/23/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/23/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg	1/23/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/23/94	8260
m,p-Xylene	<0.014	0.014	mg/kg	1/23/94	8260
o-Xylene	<0.011	0.011	mg/kg	1/23/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/23/94	8260
Carbon disulfide	<0.014	0.014	mg/kg	1/23/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33567
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-004BH 1-2

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.33	0.33	mg/kg	1/24/94	8260
Acrolein	<0.015	0.015	mg/kg	1/24/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/24/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/24/94	8260
Benzene	<0.009	0.009	mg/kg	1/24/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/24/94	8260
Bromoform	<0.006	0.006	mg/kg	1/24/94	8260
Bromomethane	<0.018	0.018	mg/kg	1/24/94	8260
2-Butanone (MEK)	<0.030	0.030	mg/kg	1/24/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/24/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/24/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/24/94	8260
2-Chloroethyl vinyl ether	<0.030	0.030	mg/kg	1/24/94	8260
Chloroform	<0.009	0.009	mg/kg	1/24/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/24/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/24/94	8260
1,2-Dibromo-3-chloropropane	<0.018	0.018	mg/kg	1/24/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/24/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/24/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/24/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/24/94	8260
1,4-Dichlorobenzene	<0.018	0.018	mg/kg	1/24/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/24/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/24/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/24/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/24/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/24/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/24/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/24/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/24/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/24/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/24/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/24/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/24/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/24/94	8260
2-Hexanone	<0.018	0.018	mg/kg	1/24/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/24/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/24/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/24/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/24/94	8260
4-Methyl-2-pentanone (MIBK)	<0.030	0.030	mg/kg	1/24/94	8260
Propionitrile	<0.030	0.030	mg/kg	1/24/94	8260
Styrene	<0.012	0.012	mg/kg	1/24/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/24/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33567
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-004BH 1-2

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/24/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/24/94	8260
Toluene	<0.068	0.068	mg/kg	1/24/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/24/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/24/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/24/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/24/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/24/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/24/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/24/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/24/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/24/94	8260

Approved by: R. Eckmann

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33568
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-004BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.36	0.36	mg/kg	1/24/94	8260
Acrolein	<0.017	0.017	mg/kg	1/24/94	8260
Acrylonitrile	<0.013	0.013	mg/kg	1/24/94	8260
Allyl chloride	<0.010	0.010	mg/kg	1/24/94	8260
Benzene	<0.010	0.010	mg/kg	1/24/94	8260
Bromodichloromethane	<0.010	0.010	mg/kg	1/24/94	8260
Bromoform	<0.007	0.007	mg/kg	1/24/94	8260
Bromomethane	<0.020	0.020	mg/kg	1/24/94	8260
2-Butanone (MEK)	<0.033	0.033	mg/kg	1/24/94	8260
Carbon tetrachloride	<0.010	0.010	mg/kg	1/24/94	8260
Chlorobenzene	<0.013	0.013	mg/kg	1/24/94	8260
Chloroethane	<0.007	0.007	mg/kg	1/24/94	8260
2-Chloroethyl vinyl ether	<0.033	0.033	mg/kg	1/24/94	8260
Chloroform	<0.010	0.010	mg/kg	1/24/94	8260
Chloromethane	<0.017	0.017	mg/kg	1/24/94	8260
Dibromochloromethane	<0.010	0.010	mg/kg	1/24/94	8260
1,2-Dibromo-3-chloropropane	<0.020	0.020	mg/kg	1/24/94	8260
1,2-Dibromoethane	<0.010	0.010	mg/kg	1/24/94	8260
Dibromomethane	<0.007	0.007	mg/kg	1/24/94	8260
1,2-Dichlorobenzene	<0.017	0.017	mg/kg	1/24/94	8260
1,3-Dichlorobenzene	<0.017	0.017	mg/kg	1/24/94	8260
1,4-Dichlorobenzene	<0.020	0.020	mg/kg	1/24/94	8260
trans-1,4-Dichloro-2-butene	<0.013	0.013	mg/kg	1/24/94	8260
Dichlorodifluoromethane	<0.010	0.010	mg/kg	1/24/94	8260
1,1-Dichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
1,2-Dichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
1,1-Dichloroethene	<0.017	0.017	mg/kg	1/24/94	8260
cis-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/24/94	8260
trans-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/24/94	8260
1,2-Dichloropropane	<0.007	0.007	mg/kg	1/24/94	8260
cis-1,3-Dichloropropene	<0.007	0.007	mg/kg	1/24/94	8260
trans-1,3-Dichloropropene	<0.010	0.010	mg/kg	1/24/94	8260
Diethyl ether	<0.017	0.017	mg/kg	1/24/94	8260
Ethylbenzene	<0.017	0.017	mg/kg	1/24/94	8260
Ethylmethacrylate	<0.017	0.017	mg/kg	1/24/94	8260
2-Hexanone	<0.020	0.020	mg/kg	1/24/94	8260
Iodomethane	<0.017	0.017	mg/kg	1/24/94	8260
Methacrylonitrile	<0.017	0.017	mg/kg	1/24/94	8260
Methylene chloride	<0.013	0.013	mg/kg	1/24/94	8260
Methylmethacrylate	<0.013	0.013	mg/kg	1/24/94	8260
4-Methyl-2-pentanone (MIBK)	<0.033	0.033	mg/kg	1/24/94	8260
Propionitrile	<0.033	0.033	mg/kg	1/24/94	8260
Styrene	<0.013	0.013	mg/kg	1/24/94	8260
1,1,1,2-Tetrachloroethane	<0.017	0.017	mg/kg	1/24/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33568
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-004BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.010	0.010	mg/kg	1/24/94	8260
Tetrachloroethene	<0.017	0.017	mg/kg	1/24/94	8260
Toluene	<0.075	0.075	mg/kg	1/24/94	8260
1,1,1-Trichloroethane	<0.017	0.017	mg/kg	1/24/94	8260
1,1,2-Trichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
Trichloroethene	<0.007	0.007	mg/kg	1/24/94	8260
Trichlorofluoromethane	<0.017	0.017	mg/kg	1/24/94	8260
1,2,3-Trichloropropane	<0.010	0.010	mg/kg	1/24/94	8260
m,p-Xylene	<0.017	0.017	mg/kg	1/24/94	8260
o-Xylene	<0.013	0.013	mg/kg	1/24/94	8260
Vinyl Chloride	<0.007	0.007	mg/kg	1/24/94	8260
Carbon disulfide	<0.017	0.017	mg/kg	1/24/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 2/1/94
Chemron Sample #: 33579
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 1-2

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.30	0.30	mg/kg	1/26/94	8260
Acrolein	<0.014	0.014	mg/kg	1/26/94	8260
Acrylonitrile	<0.011	0.011	mg/kg	1/26/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/26/94	8260
Benzene	<0.008	0.008	mg/kg	1/26/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/26/94	8260
Bromoform	<0.005	0.005	mg/kg	1/26/94	8260
Bromomethane	<0.016	0.016	mg/kg	1/26/94	8260
2-Butanone (MEK)	<0.027	0.027	mg/kg	1/26/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/26/94	8260
Chlorobenzene	<0.011	0.011	mg/kg	1/26/94	8260
Chloroethane	<0.005	0.005	mg/kg	1/26/94	8260
2-Chloroethyl vinyl ether	<0.027	0.027	mg/kg	1/26/94	8260
Chloroform	<0.008	0.008	mg/kg	1/26/94	8260
Chloromethane	<0.014	0.014	mg/kg	1/26/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.016	0.016	mg/kg	1/26/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/26/94	8260
Dibromomethane	<0.005	0.005	mg/kg	1/26/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg	1/26/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg	1/26/94	8260
1,4-Dichlorobenzene	<0.016	0.016	mg/kg	1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg	1/26/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/26/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/26/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/26/94	8260
1,1-Dichloroethene	<0.014	0.014	mg/kg	1/26/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/26/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/26/94	8260
1,2-Dichloropropane	<0.005	0.005	mg/kg	1/26/94	8260
cis-1,3-Dichloropropene	<0.005	0.005	mg/kg	1/26/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/26/94	8260
Diethyl ether	<0.014	0.014	mg/kg	1/26/94	8260
Ethylbenzene	<0.014	0.014	mg/kg	1/26/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg	1/26/94	8260
2-Hexanone	<0.016	0.016	mg/kg	1/26/94	8260
Iodomethane	<0.014	0.014	mg/kg	1/26/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg	1/26/94	8260
Methylene chloride	<0.011	0.011	mg/kg	1/26/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg	1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.027	0.027	mg/kg	1/26/94	8260
Propionitrile	<0.027	0.027	mg/kg	1/26/94	8260
Styrene	<0.011	0.011	mg/kg	1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg	1/26/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 2/1/94
Chemron Sample #: 33579
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 1-2

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/26/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg	1/26/94	8260
Toluene	<0.060	0.060	mg/kg	1/26/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg	1/26/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/26/94	8260
Trichloroethene	<0.005	0.005	mg/kg	1/26/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg	1/26/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/26/94	8260
m,p-Xylene	<0.014	0.014	mg/kg	1/26/94	8260
o-Xylene	<0.011	0.011	mg/kg	1/26/94	8260
Vinyl Chloride	<0.005	0.005	mg/kg	1/26/94	8260
Carbon disulfide	<0.014	0.014	mg/kg	1/26/94	8260

Approved by: R. Graham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33580
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 6-8

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.31	0.31	mg/kg	1/25/94	8260
Acrolein	<0.014	0.014	mg/kg	1/25/94	8260
Acrylonitrile	<0.011	0.011	mg/kg	1/25/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/25/94	8260
Benzene	<0.008	0.008	mg/kg	1/25/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/25/94	8260
Bromoform	<0.006	0.006	mg/kg	1/25/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/25/94	8260
2-Butanone (MEK)	<0.028	0.028	mg/kg	1/25/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/25/94	8260
Chlorobenzene	<0.011	0.011	mg/kg	1/25/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/25/94	8260
2-Chloroethyl vinyl ether	<0.028	0.028	mg/kg	1/25/94	8260
Chloroform	<0.008	0.008	mg/kg	1/25/94	8260
Chloromethane	<0.014	0.014	mg/kg	1/25/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/25/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/25/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/25/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/25/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg	1/25/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg	1/25/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/25/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg	1/25/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/25/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
1,1-Dichloroethene	<0.014	0.014	mg/kg	1/25/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/25/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/25/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/25/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/25/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/25/94	8260
Diethyl ether	<0.014	0.014	mg/kg	1/25/94	8260
Ethylbenzene	<0.014	0.014	mg/kg	1/25/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg	1/25/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/25/94	8260
Iodomethane	<0.014	0.014	mg/kg	1/25/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg	1/25/94	8260
Methylene chloride	<0.011	0.011	mg/kg	1/25/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg	1/25/94	8260
4-Methyl-2-pentanone (MIBK)	<0.028	0.028	mg/kg	1/25/94	8260
Propionitrile	<0.028	0.028	mg/kg	1/25/94	8260
Styrene	<0.011	0.011	mg/kg	1/25/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg	1/25/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33580
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 6-8

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/25/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg	1/25/94	8260
Toluene	<0.060	0.060	mg/kg	1/25/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg	1/25/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/25/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg	1/25/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/25/94	8260
m,p-Xylene	<0.014	0.014	mg/kg	1/25/94	8260
o-Xylene	<0.011	0.011	mg/kg	1/25/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/25/94	8260
Carbon disulfide	<0.014	0.014	mg/kg	1/25/94	8260

Approved by: R. Richman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33580PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 6-8
Spiked with 0.125 mg/kg Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.28	0.28	mg/kg		1/25/94	8260
Acrolein	<0.013	0.013	mg/kg		1/25/94	8260
Acrylonitrile	<0.010	0.010	mg/kg		1/25/94	8260
Allyl chloride	<0.008	0.008	mg/kg		1/25/94	8260
Benzene	0.13	0.008	mg/kg	104.0%	1/25/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg		1/25/94	8260
Bromoform	<0.005	0.005	mg/kg		1/25/94	8260
Bromomethane	<0.015	0.015	mg/kg		1/25/94	8260
2-Butanone (MEK)	<0.025	0.025	mg/kg		1/25/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg		1/25/94	8260
Chlorobenzene	0.14	0.010	mg/kg	112.0%	1/25/94	8260
Chloroethane	<0.005	0.005	mg/kg		1/25/94	8260
2-Chloroethyl vinyl ether	<0.025	0.025	mg/kg		1/25/94	8260
Chloroform	<0.008	0.008	mg/kg		1/25/94	8260
Chloromethane	<0.013	0.013	mg/kg		1/25/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg		1/25/94	8260
1,2-Dibromo-3-chloropropane	<0.015	0.015	mg/kg		1/25/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg		1/25/94	8260
Dibromomethane	<0.005	0.005	mg/kg		1/25/94	8260
1,2-Dichlorobenzene	<0.013	0.013	mg/kg		1/25/94	8260
1,3-Dichlorobenzene	<0.013	0.013	mg/kg		1/25/94	8260
1,4-Dichlorobenzene	<0.015	0.015	mg/kg		1/25/94	8260
trans-1,4-Dichloro-2-butene	<0.010	0.010	mg/kg		1/25/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg		1/25/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg		1/25/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg		1/25/94	8260
1,1-Dichloroethene	0.13	0.013	mg/kg	104.0%	1/25/94	8260
cis-1,2-Dichloroethene	<0.010	0.010	mg/kg		1/25/94	8260
trans-1,2-Dichloroethene	<0.010	0.010	mg/kg		1/25/94	8260
1,2-Dichloropropane	<0.005	0.005	mg/kg		1/25/94	8260
cis-1,3-Dichloropropene	<0.005	0.005	mg/kg		1/25/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg		1/25/94	8260
Diethyl ether	<0.013	0.013	mg/kg		1/25/94	8260
Ethylbenzene	<0.013	0.013	mg/kg		1/25/94	8260
Ethylmethacrylate	<0.013	0.013	mg/kg		1/25/94	8260
2-Hexanone	<0.015	0.015	mg/kg		1/25/94	8260
Iodomethane	<0.013	0.013	mg/kg		1/25/94	8260
Methacrylonitrile	<0.013	0.013	mg/kg		1/25/94	8260
Methylene chloride	<0.010	0.010	mg/kg		1/25/94	8260
Methylmethacrylate	<0.010	0.010	mg/kg		1/25/94	8260
4-Methyl-2-pentanone (MIBK)	<0.025	0.025	mg/kg		1/25/94	8260
Propionitrile	<0.025	0.025	mg/kg		1/25/94	8260
Styrene	<0.010	0.010	mg/kg		1/25/94	8260
1,1,1,2-Tetrachloroethane	<0.013	0.013	mg/kg		1/25/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33580PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 6-8
Spiked with 0.125 mg/kg Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg		1/25/94	8260
Tetrachloroethene	<0.013	0.013	mg/kg		1/25/94	8260
Toluene	0.13	0.040	mg/kg	104.0%	1/25/94	8260
1,1,1-Trichloroethane	<0.013	0.013	mg/kg		1/25/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg		1/25/94	8260
Trichloroethene	0.13	0.005	mg/kg	104.0%	1/25/94	8260
Trichlorofluoromethane	<0.013	0.013	mg/kg		1/25/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg		1/25/94	8260
m,p-Xylene	<0.013	0.013	mg/kg		1/25/94	8260
o-Xylene	<0.010	0.010	mg/kg		1/25/94	8260
Vinyl Chloride	<0.005	0.005	mg/kg		1/25/94	8260
Carbon disulfide	<0.013	0.013	mg/kg		1/25/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/28/94
Chemron Sample #: 33580PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 6-8
Spiked with 0.150 mg/kg Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.33	0.33	mg/kg		1/27/94	8260
Acrolein	<0.015	0.015	mg/kg		1/27/94	8260
Acrylonitrile	<0.012	0.012	mg/kg		1/27/94	8260
Allyl chloride	<0.009	0.009	mg/kg		1/27/94	8260
Benzene	0.15	0.009	mg/kg	100.0%	1/27/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg		1/27/94	8260
Bromoform	<0.006	0.006	mg/kg		1/27/94	8260
Bromomethane	<0.018	0.018	mg/kg		1/27/94	8260
2-Butanone (MEK)	<0.030	0.030	mg/kg		1/27/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg		1/27/94	8260
Chlorobenzene	0.17	0.012	mg/kg	113.3%	1/27/94	8260
Chloroethane	<0.006	0.006	mg/kg		1/27/94	8260
2-Chloroethyl vinyl ether	<0.030	0.030	mg/kg		1/27/94	8260
Chloroform	<0.009	0.009	mg/kg		1/27/94	8260
Chloromethane	<0.015	0.015	mg/kg		1/27/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg		1/27/94	8260
1,2-Dibromo-3-chloropropane	<0.018	0.018	mg/kg		1/27/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg		1/27/94	8260
Dibromomethane	<0.006	0.006	mg/kg		1/27/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg		1/27/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg		1/27/94	8260
1,4-Dichlorobenzene	<0.018	0.018	mg/kg		1/27/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg		1/27/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg		1/27/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg		1/27/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg		1/27/94	8260
1,1-Dichloroethene	0.14	0.015	mg/kg	93.3%	1/27/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg		1/27/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg		1/27/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg		1/27/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg		1/27/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg		1/27/94	8260
Diethyl ether	<0.015	0.015	mg/kg		1/27/94	8260
Ethylbenzene	<0.015	0.015	mg/kg		1/27/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg		1/27/94	8260
2-Hexanone	<0.018	0.018	mg/kg		1/27/94	8260
Iodomethane	<0.015	0.015	mg/kg		1/27/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg		1/27/94	8260
Methylene chloride	<0.012	0.012	mg/kg		1/27/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg		1/27/94	8260
4-Methyl-2-pentanone (MIBK)	<0.030	0.030	mg/kg		1/27/94	8260
Propionitrile	<0.030	0.030	mg/kg		1/27/94	8260
Styrene	<0.012	0.012	mg/kg		1/27/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg		1/27/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/28/94
Chemron Sample #: 33580PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 6-8
Spiked with 0.150 mg/kg Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg		1/27/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg		1/27/94	8260
Toluene	0.15	0.045	mg/kg	100.0%	1/27/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg		1/27/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg		1/27/94	8260
Trichloroethene	0.16	0.006	mg/kg	106.7%	1/27/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg		1/27/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg		1/27/94	8260
m,p-Xylene	<0.015	0.015	mg/kg		1/27/94	8260
o-Xylene	<0.012	0.012	mg/kg		1/27/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg		1/27/94	8260
Carbon disulfide	<0.015	0.015	mg/kg		1/27/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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File Name	Date	Surr #1 %R	Surr #2 %R	Surr #3 %R	Istd 1	Istd 2	Istd 3
01BFB25.D	1/25/94			104.66	1.61E+06	6.95E+06	2.04E+06
01VSTD25.D	1/25/94	92.62	99.85	95.82	1.30E+06	5.71E+06	1.68E+06
01VCHK25.D	1/25/94	90.43	100.46	97.41	1.26E+06	5.45E+06	1.60E+06
01BLK25.D	1/25/94	92.10	106.06	102.36	1.28E+06	5.30E+06	1.54E+06
33580S.D	1/25/94	87.14	97.40	94.88	1.14E+06	5.20E+06	1.47E+06
33580PK.D	1/25/94	89.68	103.42	105.86	1.08E+06	4.91E+06	1.32E+06
33563SD.D	1/25/94	95.68	103.22	99.87	1.13E+06	5.10E+06	1.49E+06
33581S.D	1/25/94	96.49	100.71	93.02	9.53E+05	4.83E+06	1.35E+06
33582S.D	1/25/94	92.95	103.33	100.79	1.06E+06	4.95E+06	1.41E+06
33583S.D	1/25/94	91.30	103.79	98.40	1.04E+06	4.90E+06	1.41E+06
33584S.D	1/26/94	94.26	103.14	103.10	1.18E+06	5.19E+06	1.50E+06
01BFB27.D	1/27/94			116.18	2.10E+06	8.52E+06	2.42E+06
01VSTD27.D	1/27/94	91.00	104.94	108.44	1.62E+06	7.10E+06	1.94E+06
01VCHK27.D	1/27/94	90.47	103.46	104.69	1.62E+06	6.88E+06	1.96E+06
01BLK27.D	1/27/94	88.66	100.72	103.03	1.67E+06	7.16E+06	1.99E+06
33580PKD.D	1/27/94	91.43	101.93	104.67	1.35E+06	6.40E+06	1.74E+06
Mean		91.73	102.32	102.07		**Area Limits**	
Std. Dev.		2.57	2.27	5.72	**L** 6.50E+05	2.85E+06	8.40E+05
% Std. Dev.		2.80	2.22	5.60	**H** 2.60E+06	1.14E+07	3.36E+06

		Results (ppm)	TGT (ppm)	%Rec
33580	Benzene	0.13	0.125	104.0%
Soil Matrix	Chlorobenzene	0.14	0.125	112.0%
Spike	1,1-Dichloroethene	0.13	0.125	104.0%
	Toluene	0.13	0.125	104.0%
	Trichloroethene	0.13	0.125	104.0%
33580	Benzene	0.15	0.150	100.0%
Soil Matrix	Chlorobenzene	0.17	0.150	113.3%
Spike Dup.	1,1-Dichloroethene	0.14	0.150	93.3%
	Toluene	0.15	0.150	100.0%
	Trichloroethene	0.16	0.150	106.7%

		(ppm)	Rel. % Diff.
Dup %P	Benzene	0.13	
		0.15	-14.3%
	Chlorobenzene	0.14	
		0.17	-19.4%
	1,1-Dichloroethene	0.13	
		0.14	-7.4%
	Toluene	0.13	
		0.15	-14.3%
	Trichloroethene	0.13	
		0.16	-20.7%

Surrogate Recovery Limits	**Water**	**Soil**
1,2-Dichloroethane, d4	76-110	70-121
Toluene, d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33565
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 2-3

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.33	0.33	mg/kg	1/23/94	8260
Acrolein	<0.015	0.015	mg/kg	1/23/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/23/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/23/94	8260
Benzene	<0.009	0.009	mg/kg	1/23/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/23/94	8260
Bromoform	<0.006	0.006	mg/kg	1/23/94	8260
Bromomethane	<0.018	0.018	mg/kg	1/23/94	8260
2-Butanone (MEK)	<0.030	0.030	mg/kg	1/23/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/23/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/23/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/23/94	8260
2-Chloroethyl vinyl ether	<0.030	0.030	mg/kg	1/23/94	8260
Chloroform	<0.009	0.009	mg/kg	1/23/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/23/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/23/94	8260
1,2-Dibromo-3-chloropropane	<0.018	0.018	mg/kg	1/23/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/23/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/23/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/23/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/23/94	8260
1,4-Dichlorobenzene	<0.018	0.018	mg/kg	1/23/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/23/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/23/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/23/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/23/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/23/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/23/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/23/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/23/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/23/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/23/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/23/94	8260
2-Hexanone	<0.018	0.018	mg/kg	1/23/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/23/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/23/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/23/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/23/94	8260
4-Methyl-2-pentanone (MIBK)	<0.030	0.030	mg/kg	1/23/94	8260
Propionitrile	<0.030	0.030	mg/kg	1/23/94	8260
Styrene	<0.012	0.012	mg/kg	1/23/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/23/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33565
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 2-3

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/23/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/23/94	8260
Toluene	<0.068	0.068	mg/kg	1/23/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/23/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/23/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/23/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/23/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/23/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/23/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/23/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/23/94	8260

Approved by: R. Ackmann

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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File Name	Date	Surr #1 %R	Surr #2 %R	Surr #3 %R	Istd 1	Istd 2	Istd 3
01BFB21.D	01/21/94			106.12	1.25E+06	5.75E+06	1.84E+06
01VSTD21.D	01/21/94	103.77	102.98	91.29	1.34E+06	6.15E+06	1.96E+06
01BLK21.D	01/21/94	99.83	103.99	101.99	1.08E+06	4.82E+06	1.47E+06
01VCHK21.D	01/21/94	100.91	104.39	96.70	1.01E+06	4.64E+06	1.47E+06
33554S.D	01/21/94	99.81	107.31	97.13	9.36E+05	4.24E+06	1.24E+06
33554PK.D	01/21/94	100.77	96.23	97.97	9.29E+05	4.39E+06	1.24E+06
33554PKD.D	01/21/94	103.37	98.38	98.77	9.29E+05	4.42E+06	1.27E+06
33553S.D	01/21/94	92.91	103.92	95.74	8.99E+05	3.89E+06	1.21E+06
33555S.D	01/21/94	98.93	93.05	98.79	9.49E+05	4.49E+06	1.22E+06
33556S.D	01/21/94	98.83	104.55	98.04	9.13E+05	4.23E+06	1.22E+06
33557S.D	01/21/94	103.75	108.62	102.71	9.38E+05	4.33E+06	1.28E+06
33558S.D	01/21/94	103.56	110.53	103.84	8.61E+05	4.08E+06	1.23E+06
33559S.D	01/21/94	101.46	104.09	103.27	8.89E+05	4.29E+06	1.27E+06
Mean		100.66	103.17	99.41		Area Limits	
Std. Dev.		3.07	5.04	4.02	L 6.68E+05	3.07E+06	9.82E+05
% Std. Dev.		3.05	4.89	4.043	H 2.67E+06	1.23E+07	3.93E+06

		Results (ppm)	TGT (ppm)	%Rec
33554	Benzene	0.16	0.141	113.5%
Soil Matrix	Chlorobenzene	0.14	0.141	99.3%
Spike	1,1-Dichloroethene	0.15	0.141	106.4%
	Toluene	0.14	0.141	99.3%
	Trichloroethene	0.14	0.141	99.3%
33554	Benzene	0.17	0.145	117.2%
Soil Matrix	Chlorobenzene	0.15	0.145	103.4%
Spike Dup.	1,1-Dichloroethene	0.15	0.145	103.4%
	Toluene	0.15	0.145	103.4%
	Trichloroethene	0.16	0.145	110.3%

		(ppm)	Rel. % Diff.
Dup %P	Benzene	0.16	
		0.17	-6.1%
	Chlorobenzene	0.14	
		0.15	-6.9%
	1,1-Dichloroethene	0.15	
		0.15	0.0%
	Toluene	0.14	
		0.15	-6.9%
	Trichloroethene	0.14	
		0.16	-13.3%

Surrogate Recovery Limits	Water	Soil
1,2-Dichloroethane, d4	76-110	70-121
Toluene, d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33555
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-008BH 2-3

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.36	0.36	mg/kg	1/21/94	8260
Acrolein	<0.017	0.017	mg/kg	1/21/94	8260
Acrylonitrile	<0.013	0.013	mg/kg	1/21/94	8260
Allyl chloride	<0.010	0.010	mg/kg	1/21/94	8260
Benzene	<0.010	0.010	mg/kg	1/21/94	8260
Bromodichloromethane	<0.010	0.010	mg/kg	1/21/94	8260
Bromoform	<0.007	0.007	mg/kg	1/21/94	8260
Bromomethane	<0.020	0.020	mg/kg	1/21/94	8260
2-Butanone (MEK)	<0.033	0.033	mg/kg	1/21/94	8260
Carbon tetrachloride	<0.010	0.010	mg/kg	1/21/94	8260
Chlorobenzene	<0.013	0.013	mg/kg	1/21/94	8260
Chloroethane	<0.007	0.007	mg/kg	1/21/94	8260
2-Chloroethyl vinyl ether	<0.033	0.033	mg/kg	1/21/94	8260
Chloroform	<0.010	0.010	mg/kg	1/21/94	8260
Chloromethane	<0.017	0.017	mg/kg	1/21/94	8260
Dibromochloromethane	<0.010	0.010	mg/kg	1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.020	0.020	mg/kg	1/21/94	8260
1,2-Dibromoethane	<0.010	0.010	mg/kg	1/21/94	8260
Dibromomethane	<0.007	0.007	mg/kg	1/21/94	8260
1,2-Dichlorobenzene	<0.017	0.017	mg/kg	1/21/94	8260
1,3-Dichlorobenzene	<0.017	0.017	mg/kg	1/21/94	8260
1,4-Dichlorobenzene	<0.020	0.020	mg/kg	1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.013	0.013	mg/kg	1/21/94	8260
Dichlorodifluoromethane	<0.010	0.010	mg/kg	1/21/94	8260
1,1-Dichloroethane	<0.010	0.010	mg/kg	1/21/94	8260
1,2-Dichloroethane	<0.010	0.010	mg/kg	1/21/94	8260
1,1-Dichloroethene	<0.017	0.017	mg/kg	1/21/94	8260
cis-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/21/94	8260
trans-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/21/94	8260
1,2-Dichloropropane	<0.007	0.007	mg/kg	1/21/94	8260
cis-1,3-Dichloropropene	<0.007	0.007	mg/kg	1/21/94	8260
trans-1,3-Dichloropropene	<0.010	0.010	mg/kg	1/21/94	8260
Diethyl ether	<0.017	0.017	mg/kg	1/21/94	8260
Ethylbenzene	0.047	0.017	mg/kg	1/21/94	8260
Ethylmethacrylate	<0.017	0.017	mg/kg	1/21/94	8260
2-Hexanone	<0.020	0.020	mg/kg	1/21/94	8260
Iodomethane	<0.017	0.017	mg/kg	1/21/94	8260
Methacrylonitrile	<0.017	0.017	mg/kg	1/21/94	8260
Methylene chloride	<0.013	0.013	mg/kg	1/21/94	8260
Methylmethacrylate	<0.013	0.013	mg/kg	1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.033	0.033	mg/kg	1/21/94	8260
Propionitrile	<0.033	0.033	mg/kg	1/21/94	8260
Styrene	<0.013	0.013	mg/kg	1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.017	0.017	mg/kg	1/21/94	8260

CHEMRON
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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33555
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-008BH 2-3

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.010	0.010	mg/kg	1/21/94	8260
Tetrachloroethene	<0.017	0.017	mg/kg	1/21/94	8260
Toluene	<0.075	0.075	mg/kg	1/21/94	8260
1,1,1-Trichloroethane	<0.017	0.017	mg/kg	1/21/94	8260
1,1,2-Trichloroethane	<0.010	0.010	mg/kg	1/21/94	8260
Trichloroethene	<0.007	0.007	mg/kg	1/21/94	8260
Trichlorofluoromethane	<0.017	0.017	mg/kg	1/21/94	8260
1,2,3-Trichloropropane	<0.010	0.010	mg/kg	1/21/94	8260
m,p-Xylene	0.033	0.017	mg/kg	1/21/94	8260
o-Xylene	0.018	0.013	mg/kg	1/21/94	8260
Vinyl Chloride	<0.007	0.007	mg/kg	1/21/94	8260
Carbon disulfide	<0.017	0.017	mg/kg	1/21/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33566
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.36	0.36	mg/kg	1/24/94	8260
Acrolein	<0.017	0.017	mg/kg	1/24/94	8260
Acrylonitrile	<0.013	0.013	mg/kg	1/24/94	8260
Allyl chloride	<0.010	0.010	mg/kg	1/24/94	8260
Benzene	<0.010	0.010	mg/kg	1/24/94	8260
Bromodichloromethane	<0.010	0.010	mg/kg	1/24/94	8260
Bromoform	<0.007	0.007	mg/kg	1/24/94	8260
Bromomethane	<0.020	0.020	mg/kg	1/24/94	8260
2-Butanone (MEK)	<0.033	0.033	mg/kg	1/24/94	8260
Carbon tetrachloride	<0.010	0.010	mg/kg	1/24/94	8260
Chlorobenzene	<0.013	0.013	mg/kg	1/24/94	8260
Chloroethane	<0.007	0.007	mg/kg	1/24/94	8260
2-Chloroethyl vinyl ether	<0.033	0.033	mg/kg	1/24/94	8260
Chloroform	<0.010	0.010	mg/kg	1/24/94	8260
Chloromethane	<0.017	0.017	mg/kg	1/24/94	8260
Dibromochloromethane	<0.010	0.010	mg/kg	1/24/94	8260
1,2-Dibromo-3-chloropropane	<0.020	0.020	mg/kg	1/24/94	8260
1,2-Dibromoethane	<0.010	0.010	mg/kg	1/24/94	8260
Dibromomethane	<0.007	0.007	mg/kg	1/24/94	8260
1,2-Dichlorobenzene	<0.017	0.017	mg/kg	1/24/94	8260
1,3-Dichlorobenzene	<0.017	0.017	mg/kg	1/24/94	8260
1,4-Dichlorobenzene	<0.020	0.020	mg/kg	1/24/94	8260
trans-1,4-Dichloro-2-butene	<0.013	0.013	mg/kg	1/24/94	8260
Dichlorodifluoromethane	<0.010	0.010	mg/kg	1/24/94	8260
1,1-Dichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
1,2-Dichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
1,1-Dichloroethene	<0.017	0.017	mg/kg	1/24/94	8260
cis-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/24/94	8260
trans-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/24/94	8260
1,2-Dichloropropane	<0.007	0.007	mg/kg	1/24/94	8260
cis-1,3-Dichloropropene	<0.007	0.007	mg/kg	1/24/94	8260
trans-1,3-Dichloropropene	<0.010	0.010	mg/kg	1/24/94	8260
Diethyl ether	<0.017	0.017	mg/kg	1/24/94	8260
Ethylbenzene	<0.017	0.017	mg/kg	1/24/94	8260
Ethylmethacrylate	<0.017	0.017	mg/kg	1/24/94	8260
2-Hexanone	<0.020	0.020	mg/kg	1/24/94	8260
Iodomethane	<0.017	0.017	mg/kg	1/24/94	8260
Methacrylonitrile	<0.017	0.017	mg/kg	1/24/94	8260
Methylene chloride	<0.013	0.013	mg/kg	1/24/94	8260
Methylmethacrylate	<0.013	0.013	mg/kg	1/24/94	8260
4-Methyl-2-pentanone (MIBK)	<0.033	0.033	mg/kg	1/24/94	8260
Propionitrile	<0.033	0.033	mg/kg	1/24/94	8260
Styrene	<0.013	0.013	mg/kg	1/24/94	8260
1,1,1,2-Tetrachloroethane	<0.017	0.017	mg/kg	1/24/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33566
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.010	0.010	mg/kg	1/24/94	8260
Tetrachloroethene	<0.017	0.017	mg/kg	1/24/94	8260
Toluene	<0.075	0.075	mg/kg	1/24/94	8260
1,1,1-Trichloroethane	<0.017	0.017	mg/kg	1/24/94	8260
1,1,2-Trichloroethane	<0.010	0.010	mg/kg	1/24/94	8260
Trichloroethene	<0.007	0.007	mg/kg	1/24/94	8260
Trichlorofluoromethane	<0.017	0.017	mg/kg	1/24/94	8260
1,2,3-Trichloropropane	<0.010	0.010	mg/kg	1/24/94	8260
m,p-Xylene	<0.017	0.017	mg/kg	1/24/94	8260
o-Xylene	<0.013	0.013	mg/kg	1/24/94	8260
Vinyl Chloride	<0.007	0.007	mg/kg	1/24/94	8260
Carbon disulfide	<0.017	0.017	mg/kg	1/24/94	8260

Approved by: R. Aldrich

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

CHEMRON
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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33566PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 7-8
Spiked with 0.165 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.36	0.36	mg/kg		1/24/94	8260
Acrolein	<0.017	0.017	mg/kg		1/24/94	8260
Acrylonitrile	<0.013	0.013	mg/kg		1/24/94	8260
Allyl chloride	<0.010	0.010	mg/kg		1/24/94	8260
Benzene	0.17	0.010	mg/kg	103.0%	1/24/94	8260
Bromodichloromethane	<0.010	0.010	mg/kg		1/24/94	8260
Bromoform	<0.007	0.007	mg/kg		1/24/94	8260
Bromomethane	<0.020	0.020	mg/kg		1/24/94	8260
2-Butanone (MEK)	<0.033	0.033	mg/kg		1/24/94	8260
Carbon tetrachloride	<0.010	0.010	mg/kg		1/24/94	8260
Chlorobenzene	0.17	0.013	mg/kg	103.0%	1/24/94	8260
Chloroethane	<0.007	0.007	mg/kg		1/24/94	8260
2-Chloroethyl vinyl ether	<0.033	0.033	mg/kg		1/24/94	8260
Chloroform	<0.010	0.010	mg/kg		1/24/94	8260
Chloromethane	<0.017	0.017	mg/kg		1/24/94	8260
Dibromochloromethane	<0.010	0.010	mg/kg		1/24/94	8260
1,2-Dibromo-3-chloropropane	<0.020	0.020	mg/kg		1/24/94	8260
1,2-Dibromoethane	<0.010	0.010	mg/kg		1/24/94	8260
Dibromomethane	<0.007	0.007	mg/kg		1/24/94	8260
1,2-Dichlorobenzene	<0.017	0.017	mg/kg		1/24/94	8260
1,3-Dichlorobenzene	<0.017	0.017	mg/kg		1/24/94	8260
1,4-Dichlorobenzene	<0.020	0.020	mg/kg		1/24/94	8260
trans-1,4-Dichloro-2-butene	<0.013	0.013	mg/kg		1/24/94	8260
Dichlorodifluoromethane	<0.010	0.010	mg/kg		1/24/94	8260
1,1-Dichloroethane	<0.010	0.010	mg/kg		1/24/94	8260
1,2-Dichloroethane	<0.010	0.010	mg/kg		1/24/94	8260
1,1-Dichloroethene	0.14	0.017	mg/kg	84.8%	1/24/94	8260
cis-1,2-Dichloroethene	<0.013	0.013	mg/kg		1/24/94	8260
trans-1,2-Dichloroethene	<0.013	0.013	mg/kg		1/24/94	8260
1,2-Dichloropropane	<0.007	0.007	mg/kg		1/24/94	8260
cis-1,3-Dichloropropene	<0.007	0.007	mg/kg		1/24/94	8260
trans-1,3-Dichloropropene	<0.010	0.010	mg/kg		1/24/94	8260
Diethyl ether	<0.017	0.017	mg/kg		1/24/94	8260
Ethylbenzene	<0.017	0.017	mg/kg		1/24/94	8260
Ethylmethacrylate	<0.017	0.017	mg/kg		1/24/94	8260
2-Hexanone	<0.020	0.020	mg/kg		1/24/94	8260
Iodomethane	<0.017	0.017	mg/kg		1/24/94	8260
Methacrylonitrile	<0.017	0.017	mg/kg		1/24/94	8260
Methylene chloride	<0.013	0.013	mg/kg		1/24/94	8260
Methylmethacrylate	<0.013	0.013	mg/kg		1/24/94	8260
4-Methyl-2-pentanone (MIBK)	<0.033	0.033	mg/kg		1/24/94	8260
Propionitrile	<0.033	0.033	mg/kg		1/24/94	8260
Styrene	<0.013	0.013	mg/kg		1/24/94	8260
1,1,1,2-Tetrachloroethane	<0.017	0.017	mg/kg		1/24/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33566PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 7-8
Spiked with 0.165 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.010	0.010	mg/kg		1/24/94	8260
Tetrachloroethene	<0.017	0.017	mg/kg		1/24/94	8260
Toluene	0.18	0.050	mg/kg	109.1%	1/24/94	8260
1,1,1-Trichloroethane	<0.017	0.017	mg/kg		1/24/94	8260
1,1,2-Trichloroethane	<0.010	0.010	mg/kg		1/24/94	8260
Trichloroethene	0.17	0.007	mg/kg	103.0%	1/24/94	8260
Trichlorofluoromethane	<0.017	0.017	mg/kg		1/24/94	8260
1,2,3-Trichloropropane	<0.010	0.010	mg/kg		1/24/94	8260
m,p-Xylene	<0.017	0.017	mg/kg		1/24/94	8260
o-Xylene	<0.013	0.013	mg/kg		1/24/94	8260
Vinyl Chloride	<0.007	0.007	mg/kg		1/24/94	8260
Carbon disulfide	<0.017	0.017	mg/kg		1/24/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-81

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33566PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 7-8
Spiked with 0.160 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.35	0.35	mg/kg		1/24/94	8260
Acrolein	<0.016	0.016	mg/kg		1/24/94	8260
Acrylonitrile	<0.013	0.013	mg/kg		1/24/94	8260
Allyl chloride	<0.010	0.010	mg/kg		1/24/94	8260
Benzene	0.16	0.010	mg/kg	100.0%	1/24/94	8260
Bromodichloromethane	<0.010	0.010	mg/kg		1/24/94	8260
Bromoform	<0.006	0.006	mg/kg		1/24/94	8260
Bromomethane	<0.019	0.019	mg/kg		1/24/94	8260
2-Butanone (MEK)	<0.032	0.032	mg/kg		1/24/94	8260
Carbon tetrachloride	<0.010	0.010	mg/kg		1/24/94	8260
Chlorobenzene	0.18	0.013	mg/kg	112.5%	1/24/94	8260
Chloroethane	<0.006	0.006	mg/kg		1/24/94	8260
2-Chloroethyl vinyl ether	<0.032	0.032	mg/kg		1/24/94	8260
Chloroform	<0.010	0.010	mg/kg		1/24/94	8260
Chloromethane	<0.016	0.016	mg/kg		1/24/94	8260
Dibromochloromethane	<0.010	0.010	mg/kg		1/24/94	8260
1,2-Dibromo-3-chloropropane	<0.019	0.019	mg/kg		1/24/94	8260
1,2-Dibromoethane	<0.010	0.010	mg/kg		1/24/94	8260
Dibromomethane	<0.006	0.006	mg/kg		1/24/94	8260
1,2-Dichlorobenzene	<0.016	0.016	mg/kg		1/24/94	8260
1,3-Dichlorobenzene	<0.016	0.016	mg/kg		1/24/94	8260
1,4-Dichlorobenzene	<0.019	0.019	mg/kg		1/24/94	8260
trans-1,4-Dichloro-2-butene	<0.013	0.013	mg/kg		1/24/94	8260
Dichlorodifluoromethane	<0.010	0.010	mg/kg		1/24/94	8260
1,1-Dichloroethane	<0.010	0.010	mg/kg		1/24/94	8260
1,2-Dichloroethane	<0.010	0.010	mg/kg		1/24/94	8260
1,1-Dichloroethene	0.15	0.016	mg/kg	93.8%	1/24/94	8260
cis-1,2-Dichloroethene	<0.013	0.013	mg/kg		1/24/94	8260
trans-1,2-Dichloroethene	<0.013	0.013	mg/kg		1/24/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg		1/24/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg		1/24/94	8260
trans-1,3-Dichloropropene	<0.010	0.010	mg/kg		1/24/94	8260
Diethyl ether	<0.016	0.016	mg/kg		1/24/94	8260
Ethylbenzene	<0.016	0.016	mg/kg		1/24/94	8260
Ethylmethacrylate	<0.016	0.016	mg/kg		1/24/94	8260
2-Hexanone	<0.019	0.019	mg/kg		1/24/94	8260
Iodomethane	<0.016	0.016	mg/kg		1/24/94	8260
Methacrylonitrile	<0.016	0.016	mg/kg		1/24/94	8260
Methylene chloride	<0.013	0.013	mg/kg		1/24/94	8260
Methylmethacrylate	<0.013	0.013	mg/kg		1/24/94	8260
4-Methyl-2-pentanone (MIBK)	<0.032	0.032	mg/kg		1/24/94	8260
Propionitrile	<0.032	0.032	mg/kg		1/24/94	8260
Styrene	<0.013	0.013	mg/kg		1/24/94	8260
1,1,1,2-Tetrachloroethane	<0.016	0.016	mg/kg		1/24/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33566PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 7-8
Spiked with 0.160 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.010	0.010	mg/kg		1/24/94	8260
Tetrachloroethene	<0.016	0.016	mg/kg		1/24/94	8260
Toluene	0.17	0.050	mg/kg	106.3%	1/24/94	8260
1,1,1-Trichloroethane	<0.016	0.016	mg/kg		1/24/94	8260
1,1,2-Trichloroethane	<0.010	0.010	mg/kg		1/24/94	8260
Trichloroethene	0.17	0.006	mg/kg	106.3%	1/24/94	8260
Trichlorofluoromethane	<0.016	0.016	mg/kg		1/24/94	8260
1,2,3-Trichloropropane	<0.010	0.010	mg/kg		1/24/94	8260
m,p-Xylene	<0.016	0.016	mg/kg		1/24/94	8260
o-Xylene	<0.013	0.013	mg/kg		1/24/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg		1/24/94	8260
Carbon disulfide	<0.016	0.016	mg/kg		1/24/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-81

File Name	Date	Surr #1 %R	Surr #2 %R	Surr #3 %R	Istd 1	Istd 2	Istd 3
01BFB24.D	1/24/94			113.78	1.45E+06	6.22E+06	1.88E+06
01VSTD24.D	1/24/94	89.68	98.29	96.11	1.12E+06	4.87E+06	1.44E+06
01VCHK24.D	1/24/94	86.72	98.03	96.39	1.20E+06	5.19E+06	1.54E+06
01BLK24.D	1/24/94	84.94	94.98	96.56	1.22E+06	5.21E+06	1.53E+06
33566S.D	1/24/94	83.39	96.71	100.81	1.17E+06	5.09E+06	1.43E+06
33566PK.D	1/24/94	97.78	105.61	97.23	1.09E+06	4.67E+06	1.44E+06
33566PKD.D	1/24/94	91.23	103.40	103.24	1.10E+06	4.96E+06	1.38E+06
33567S.D	1/24/94	92.13	100.84	97.08	1.14E+06	4.99E+06	1.35E+06
33568S.D	1/24/94	93.58	105.53	102.42	1.12E+06	4.98E+06	1.38E+06
33572S.D	1/24/94	90.40	99.84	99.80	1.15E+06	5.29E+06	1.47E+06
33574S.D	1/24/94	91.25	100.29	94.44	1.20E+06	5.17E+06	1.36E+06
33575S.D	1/24/94	91.70	101.72	100.23	1.10E+06	5.07E+06	1.43E+06
Mean		90.26	100.48	99.84		Area Limits	
Std. Dev.		4.04	3.43	5.17	L 5.61E+05	2.43E+06	7.22E+05
% Std. Dev.		4.48	3.41	5.18	H 2.25E+06	9.73E+06	2.89E+06

		Results (ppm)	TGT (ppm)	%Rec
33566 Soil Matrix Spike	Benzene	0.17	0.165	103.0%
	Chlorobenzene	0.17	0.165	103.0%
	1,1-Dichloroethene	0.14	0.165	84.8%
	Toluene	0.18	0.165	109.1%
	Trichloroethene	0.17	0.165	103.0%
33566 Soil Matrix Spike Dup.	Benzene	0.16	0.160	100.0%
	Chlorobenzene	0.18	0.160	112.5%
	1,1-Dichloroethene	0.15	0.160	93.8%
	Toluene	0.17	0.160	106.3%
	Trichloroethene	0.17	0.160	106.3%

		(ppm)	Rel. % Diff.
Dup %P	Benzene	0.17	
		0.16	6.1%
	Chlorobenzene	0.17	
		0.18	-5.7%
	1,1-Dichloroethene	0.14	
		0.15	-6.9%
	Toluene	0.18	
		0.17	5.7%
	Trichloroethene	0.17	
		0.17	0.0%

Surrogate Recovery Limits	Water	Soil
1,2-Dichloroethane, d4	76-110	70-121
Toluene, d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33553
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 2-3

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.29	0.29	mg/kg	1/21/94	8260
Acrolein	<0.013	0.013	mg/kg	1/21/94	8260
Acrylonitrile	<0.010	0.010	mg/kg	1/21/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/21/94	8260
Benzene	<0.008	0.008	mg/kg	1/21/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/21/94	8260
Bromoform	<0.005	0.005	mg/kg	1/21/94	8260
Bromomethane	<0.016	0.016	mg/kg	1/21/94	8260
2-Butanone (MEK)	<0.026	0.026	mg/kg	1/21/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/21/94	8260
Chlorobenzene	<0.010	0.010	mg/kg	1/21/94	8260
Chloroethane	<0.005	0.005	mg/kg	1/21/94	8260
2-Chloroethyl vinyl ether	<0.026	0.026	mg/kg	1/21/94	8260
Chloroform	<0.008	0.008	mg/kg	1/21/94	8260
Chloromethane	<0.013	0.013	mg/kg	1/21/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.016	0.016	mg/kg	1/21/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/21/94	8260
Dibromomethane	<0.005	0.005	mg/kg	1/21/94	8260
1,2-Dichlorobenzene	<0.013	0.013	mg/kg	1/21/94	8260
1,3-Dichlorobenzene	<0.013	0.013	mg/kg	1/21/94	8260
1,4-Dichlorobenzene	<0.016	0.016	mg/kg	1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.010	0.010	mg/kg	1/21/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/21/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/21/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/21/94	8260
1,1-Dichloroethene	<0.013	0.013	mg/kg	1/21/94	8260
cis-1,2-Dichloroethene	<0.010	0.010	mg/kg	1/21/94	8260
trans-1,2-Dichloroethene	<0.010	0.010	mg/kg	1/21/94	8260
1,2-Dichloropropane	<0.005	0.005	mg/kg	1/21/94	8260
cis-1,3-Dichloropropene	<0.005	0.005	mg/kg	1/21/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/21/94	8260
Diethyl ether	<0.013	0.013	mg/kg	1/21/94	8260
Ethylbenzene	<0.013	0.013	mg/kg	1/21/94	8260
Ethylmethacrylate	<0.013	0.013	mg/kg	1/21/94	8260
2-Hexanone	<0.016	0.016	mg/kg	1/21/94	8260
Iodomethane	<0.013	0.013	mg/kg	1/21/94	8260
Methacrylonitrile	<0.013	0.013	mg/kg	1/21/94	8260
Methylene chloride	<0.010	0.010	mg/kg	1/21/94	8260
Methylmethacrylate	<0.010	0.010	mg/kg	1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.026	0.026	mg/kg	1/21/94	8260
Propionitrile	<0.026	0.026	mg/kg	1/21/94	8260
Styrene	<0.010	0.010	mg/kg	1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.013	0.013	mg/kg	1/21/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33553
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 2-3

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/21/94	8260
Tetrachloroethene	<0.013	0.013	mg/kg	1/21/94	8260
Toluene	<0.060	0.060	mg/kg	1/21/94	8260
1,1,1-Trichloroethane	<0.013	0.013	mg/kg	1/21/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/21/94	8260
Trichloroethene	<0.005	0.005	mg/kg	1/21/94	8260
Trichlorofluoromethane	<0.013	0.013	mg/kg	1/21/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/21/94	8260
m,p-Xylene	<0.013	0.013	mg/kg	1/21/94	8260
o-Xylene	<0.010	0.010	mg/kg	1/21/94	8260
Vinyl Chloride	<0.005	0.005	mg/kg	1/21/94	8260
Carbon disulfide	<0.013	0.013	mg/kg	1/21/94	8260

Approved by: R. Eckman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33554
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.33	0.33	mg/kg	1/21/94	8260
Acrolein	<0.015	0.015	mg/kg	1/21/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/21/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/21/94	8260
Benzene	<0.009	0.009	mg/kg	1/21/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/21/94	8260
Bromoform	<0.006	0.006	mg/kg	1/21/94	8260
Bromomethane	<0.018	0.018	mg/kg	1/21/94	8260
2-Butanone (MEK)	<0.030	0.030	mg/kg	1/21/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/21/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/21/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/21/94	8260
2-Chloroethyl vinyl ether	<0.030	0.030	mg/kg	1/21/94	8260
Chloroform	<0.009	0.009	mg/kg	1/21/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/21/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.018	0.018	mg/kg	1/21/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/21/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/21/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/21/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/21/94	8260
1,4-Dichlorobenzene	<0.018	0.018	mg/kg	1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/21/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/21/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/21/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/21/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/21/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/21/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/21/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/21/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/21/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/21/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/21/94	8260
2-Hexanone	<0.018	0.018	mg/kg	1/21/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/21/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/21/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/21/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.030	0.030	mg/kg	1/21/94	8260
Propionitrile	<0.030	0.030	mg/kg	1/21/94	8260
Styrene	<0.012	0.012	mg/kg	1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/21/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33554
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/21/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/21/94	8260
Toluene	<0.068	0.068	mg/kg	1/21/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/21/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/21/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/21/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/21/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/21/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/21/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/21/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/21/94	8260

Approved by: R. Erdman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/9
Chemron Sample #: 33554PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 7-8
Spiked with 0.141 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.31	0.31	mg/kg		1/21/94	8260
Acrolein	<0.014	0.014	mg/kg		1/21/94	8260
Acrylonitrile	<0.011	0.011	mg/kg		1/21/94	8260
Allyl chloride	<0.008	0.008	mg/kg		1/21/94	8260
Benzene	0.16	0.008	mg/kg	113.5%	1/21/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg		1/21/94	8260
Bromoform	<0.006	0.006	mg/kg		1/21/94	8260
Bromomethane	<0.017	0.017	mg/kg		1/21/94	8260
2-Butanone (MEK)	<0.028	0.028	mg/kg		1/21/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg		1/21/94	8260
Chlorobenzene	0.14	0.011	mg/kg	99.3%	1/21/94	8260
Chloroethane	<0.006	0.006	mg/kg		1/21/94	8260
2-Chloroethyl vinyl ether	<0.028	0.028	mg/kg		1/21/94	8260
Chloroform	<0.008	0.008	mg/kg		1/21/94	8260
Chloromethane	<0.014	0.014	mg/kg		1/21/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg		1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg		1/21/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg		1/21/94	8260
Dibromomethane	<0.006	0.006	mg/kg		1/21/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg		1/21/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg		1/21/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg		1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg		1/21/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg		1/21/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg		1/21/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg		1/21/94	8260
1,1-Dichloroethene	0.15	0.014	mg/kg	106.4%	1/21/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg		1/21/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg		1/21/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg		1/21/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg		1/21/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg		1/21/94	8260
Diethyl ether	<0.014	0.014	mg/kg		1/21/94	8260
Ethylbenzene	<0.014	0.014	mg/kg		1/21/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg		1/21/94	8260
2-Hexanone	<0.017	0.017	mg/kg		1/21/94	8260
Iodomethane	<0.014	0.014	mg/kg		1/21/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg		1/21/94	8260
Methylene chloride	<0.011	0.011	mg/kg		1/21/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg		1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.028	0.028	mg/kg		1/21/94	8260
Propionitrile	<0.028	0.028	mg/kg		1/21/94	8260
Styrene	<0.011	0.011	mg/kg		1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg		1/21/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33554PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 7-8
Spiked with 0.141 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg		1/21/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg		1/21/94	8260
Toluene	0.14	0.040	mg/kg	99.3%	1/21/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg		1/21/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg		1/21/94	8260
Trichloroethene	0.14	0.006	mg/kg	99.3%	1/21/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg		1/21/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg		1/21/94	8260
m,p-Xylene	<0.014	0.014	mg/kg		1/21/94	8260
o-Xylene	<0.011	0.011	mg/kg		1/21/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg		1/21/94	8260
Carbon disulfide	<0.014	0.014	mg/kg		1/21/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33554PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 7-8
Spiked with 0.145 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.32	0.32	mg/kg		1/21/94	8260
Acrolein	<0.015	0.015	mg/kg		1/21/94	8260
Acrylonitrile	<0.012	0.012	mg/kg		1/21/94	8260
Allyl chloride	<0.009	0.009	mg/kg		1/21/94	8260
Benzene	0.17	0.009	mg/kg	117.2%	1/21/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg		1/21/94	8260
Bromoform	<0.006	0.006	mg/kg		1/21/94	8260
Bromomethane	<0.017	0.017	mg/kg		1/21/94	8260
2-Butanone (MEK)	<0.029	0.029	mg/kg		1/21/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg		1/21/94	8260
Chlorobenzene	0.15	0.012	mg/kg	103.4%	1/21/94	8260
Chloroethane	<0.006	0.006	mg/kg		1/21/94	8260
2-Chloroethyl vinyl ether	<0.029	0.029	mg/kg		1/21/94	8260
Chloroform	<0.009	0.009	mg/kg		1/21/94	8260
Chloromethane	<0.015	0.015	mg/kg		1/21/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg		1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg		1/21/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg		1/21/94	8260
Dibromomethane	<0.006	0.006	mg/kg		1/21/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg		1/21/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg		1/21/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg		1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg		1/21/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg		1/21/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg		1/21/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg		1/21/94	8260
1,1-Dichloroethene	0.15	0.015	mg/kg	103.4%	1/21/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg		1/21/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg		1/21/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg		1/21/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg		1/21/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg		1/21/94	8260
Diethyl ether	<0.015	0.015	mg/kg		1/21/94	8260
Ethylbenzene	<0.015	0.015	mg/kg		1/21/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg		1/21/94	8260
2-Hexanone	<0.017	0.017	mg/kg		1/21/94	8260
Iodomethane	<0.015	0.015	mg/kg		1/21/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg		1/21/94	8260
Methylene chloride	<0.012	0.012	mg/kg		1/21/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg		1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.029	0.029	mg/kg		1/21/94	8260
Propionitrile	<0.029	0.029	mg/kg		1/21/94	8260
Styrene	<0.012	0.012	mg/kg		1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg		1/21/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33554PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 7-8
Spiked with 0.145 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg		1/21/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg		1/21/94	8260
Toluene	0.15	0.045	mg/kg	103.4%	1/21/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg		1/21/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg		1/21/94	8260
Trichloroethene	0.16	0.006	mg/kg	110.3%	1/21/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg		1/21/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg		1/21/94	8260
m,p-Xylene	<0.015	0.015	mg/kg		1/21/94	8260
o-Xylene	<0.012	0.012	mg/kg		1/21/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg		1/21/94	8260
Carbon disulfide	<0.015	0.015	mg/kg		1/21/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33556
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-008BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.32	0.32	mg/kg	1/21/94	8260
Acrolein	<0.015	0.015	mg/kg	1/21/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/21/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/21/94	8260
Benzene	<0.009	0.009	mg/kg	1/21/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/21/94	8260
Bromoform	<0.006	0.006	mg/kg	1/21/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/21/94	8260
2-Butanone (MEK)	<0.029	0.029	mg/kg	1/21/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/21/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/21/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/21/94	8260
2-Chloroethyl vinyl ether	<0.029	0.029	mg/kg	1/21/94	8260
Chloroform	<0.009	0.009	mg/kg	1/21/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/21/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/21/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/21/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/21/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/21/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/21/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/21/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/21/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/21/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/21/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/21/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/21/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/21/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/21/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/21/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/21/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/21/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/21/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/21/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/21/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/21/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.029	0.029	mg/kg	1/21/94	8260
Propionitrile	<0.029	0.029	mg/kg	1/21/94	8260
Styrene	<0.012	0.012	mg/kg	1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/21/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33556
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-008BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/21/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/21/94	8260
Toluene	<0.068	0.068	mg/kg	1/21/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/21/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/21/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/21/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/21/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/21/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/21/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/21/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/21/94	8260

Approved by: R. Richman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33581
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94
Date & Time Received:
1/21/94 09:15

Sample Description:
1315-109 / Garland / Garland, Texas
01-009BH 4-5

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.32	0.32	mg/kg	1/25/94	8260
Acrolein	<0.015	0.015	mg/kg	1/25/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/25/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/25/94	8260
Benzene	<0.009	0.009	mg/kg	1/25/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/25/94	8260
Bromoform	<0.006	0.006	mg/kg	1/25/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/25/94	8260
2-Butanone (MEK)	<0.029	0.029	mg/kg	1/25/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/25/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/25/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/25/94	8260
2-Chloroethyl vinyl ether	<0.029	0.029	mg/kg	1/25/94	8260
Chloroform	<0.009	0.009	mg/kg	1/25/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/25/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/25/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/25/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/25/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/25/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/25/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/25/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/25/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/25/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/25/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/25/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/25/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/25/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/25/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/25/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/25/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/25/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/25/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/25/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/25/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/25/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/25/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/25/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/25/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/25/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/25/94	8260
4-Methyl-2-pentanone (MIBK)	<0.029	0.029	mg/kg	1/25/94	8260
Propionitrile	<0.029	0.029	mg/kg	1/25/94	8260
Styrene	<0.012	0.012	mg/kg	1/25/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/25/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33581
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-009BH 4-5

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/25/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/25/94	8260
Toluene	<0.068	0.068	mg/kg	1/25/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/25/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/25/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/25/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/25/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/25/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/25/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/25/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/25/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/25/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33582
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-009BH 9-10

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.29	0.29	mg/kg	1/25/94	8260
Acrolein	<0.013	0.013	mg/kg	1/25/94	8260
Acrylonitrile	<0.010	0.010	mg/kg	1/25/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/25/94	8260
Benzene	<0.008	0.008	mg/kg	1/25/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/25/94	8260
Bromoform	<0.005	0.005	mg/kg	1/25/94	8260
Bromomethane	<0.016	0.016	mg/kg	1/25/94	8260
2-Butanone (MEK)	<0.026	0.026	mg/kg	1/25/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/25/94	8260
Chlorobenzene	<0.010	0.010	mg/kg	1/25/94	8260
Chloroethane	<0.005	0.005	mg/kg	1/25/94	8260
2-Chloroethyl vinyl ether	<0.026	0.026	mg/kg	1/25/94	8260
Chloroform	<0.008	0.008	mg/kg	1/25/94	8260
Chloromethane	<0.013	0.013	mg/kg	1/25/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/25/94	8260
1,2-Dibromo-3-chloropropane	<0.016	0.016	mg/kg	1/25/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/25/94	8260
Dibromomethane	<0.005	0.005	mg/kg	1/25/94	8260
1,2-Dichlorobenzene	<0.013	0.013	mg/kg	1/25/94	8260
1,3-Dichlorobenzene	<0.013	0.013	mg/kg	1/25/94	8260
1,4-Dichlorobenzene	<0.016	0.016	mg/kg	1/25/94	8260
trans-1,4-Dichloro-2-butene	<0.010	0.010	mg/kg	1/25/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/25/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
1,1-Dichloroethene	<0.013	0.013	mg/kg	1/25/94	8260
cis-1,2-Dichloroethene	<0.010	0.010	mg/kg	1/25/94	8260
trans-1,2-Dichloroethene	<0.010	0.010	mg/kg	1/25/94	8260
1,2-Dichloropropane	<0.005	0.005	mg/kg	1/25/94	8260
cis-1,3-Dichloropropene	<0.005	0.005	mg/kg	1/25/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/25/94	8260
Diethyl ether	<0.013	0.013	mg/kg	1/25/94	8260
Ethylbenzene	<0.013	0.013	mg/kg	1/25/94	8260
Ethylmethacrylate	<0.013	0.013	mg/kg	1/25/94	8260
2-Hexanone	<0.016	0.016	mg/kg	1/25/94	8260
Iodomethane	<0.013	0.013	mg/kg	1/25/94	8260
Methacrylonitrile	<0.013	0.013	mg/kg	1/25/94	8260
Methylene chloride	<0.010	0.010	mg/kg	1/25/94	8260
Methylmethacrylate	<0.010	0.010	mg/kg	1/25/94	8260
4-Methyl-2-pentanone (MIBK)	<0.026	0.026	mg/kg	1/25/94	8260
Propionitrile	<0.026	0.026	mg/kg	1/25/94	8260
Styrene	<0.010	0.010	mg/kg	1/25/94	8260
1,1,1,2-Tetrachloroethane	<0.013	0.013	mg/kg	1/25/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33582
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-009BH 9-10

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/25/94	8260
Tetrachloroethene	<0.013	0.013	mg/kg	1/25/94	8260
Toluene	<0.060	0.060	mg/kg	1/25/94	8260
1,1,1-Trichloroethane	<0.013	0.013	mg/kg	1/25/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
Trichloroethene	<0.005	0.005	mg/kg	1/25/94	8260
Trichlorofluoromethane	<0.013	0.013	mg/kg	1/25/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/25/94	8260
m,p-Xylene	<0.013	0.013	mg/kg	1/25/94	8260
o-Xylene	<0.010	0.010	mg/kg	1/25/94	8260
Vinyl Chloride	<0.005	0.005	mg/kg	1/25/94	8260
Carbon disulfide	<0.013	0.013	mg/kg	1/25/94	8260

Approved by: R. Ellman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33583
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-010BH 3-4

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.30	0.30	mg/kg	1/25/94	8260
Acrolein	<0.014	0.014	mg/kg	1/25/94	8260
Acrylonitrile	<0.011	0.011	mg/kg	1/25/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/25/94	8260
Benzene	<0.008	0.008	mg/kg	1/25/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/25/94	8260
Bromoform	<0.005	0.005	mg/kg	1/25/94	8260
Bromomethane	<0.016	0.016	mg/kg	1/25/94	8260
2-Butanone (MEK)	<0.027	0.027	mg/kg	1/25/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/25/94	8260
Chlorobenzene	<0.011	0.011	mg/kg	1/25/94	8260
Chloroethane	<0.005	0.005	mg/kg	1/25/94	8260
2-Chloroethyl vinyl ether	<0.027	0.027	mg/kg	1/25/94	8260
Chloroform	<0.008	0.008	mg/kg	1/25/94	8260
Chloromethane	<0.014	0.014	mg/kg	1/25/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/25/94	8260
1,2-Dibromo-3-chloropropane	<0.016	0.016	mg/kg	1/25/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/25/94	8260
Dibromomethane	<0.005	0.005	mg/kg	1/25/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg	1/25/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg	1/25/94	8260
1,4-Dichlorobenzene	<0.016	0.016	mg/kg	1/25/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg	1/25/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/25/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
1,1-Dichloroethene	<0.014	0.014	mg/kg	1/25/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/25/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/25/94	8260
1,2-Dichloropropane	<0.005	0.005	mg/kg	1/25/94	8260
cis-1,3-Dichloropropene	<0.005	0.005	mg/kg	1/25/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/25/94	8260
Diethyl ether	<0.014	0.014	mg/kg	1/25/94	8260
Ethylbenzene	<0.014	0.014	mg/kg	1/25/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg	1/25/94	8260
2-Hexanone	<0.016	0.016	mg/kg	1/25/94	8260
Iodomethane	<0.014	0.014	mg/kg	1/25/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg	1/25/94	8260
Methylene chloride	<0.011	0.011	mg/kg	1/25/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg	1/25/94	8260
4-Methyl-2-pentanone (MIBK)	<0.027	0.027	mg/kg	1/25/94	8260
Propionitrile	<0.027	0.027	mg/kg	1/25/94	8260
Styrene	<0.011	0.011	mg/kg	1/25/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg	1/25/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33583
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-010BH 3-4

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/25/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg	1/25/94	8260
Toluene	<0.060	0.060	mg/kg	1/25/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg	1/25/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/25/94	8260
Trichloroethene	<0.005	0.005	mg/kg	1/25/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg	1/25/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/25/94	8260
m,p-Xylene	<0.014	0.014	mg/kg	1/25/94	8260
o-Xylene	<0.011	0.011	mg/kg	1/25/94	8260
Vinyl Chloride	<0.005	0.005	mg/kg	1/25/94	8260
Carbon disulfide	<0.014	0.014	mg/kg	1/25/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33584
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-010BH 9-10

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.32	0.32	mg/kg	1/26/94	8260
Acrolein	<0.015	0.015	mg/kg	1/26/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/26/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/26/94	8260
Benzene	<0.009	0.009	mg/kg	1/26/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/26/94	8260
Bromoform	<0.006	0.006	mg/kg	1/26/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/26/94	8260
2-Butanone (MEK)	<0.029	0.029	mg/kg	1/26/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/26/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/26/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/26/94	8260
2-Chloroethyl vinyl ether	<0.029	0.029	mg/kg	1/26/94	8260
Chloroform	<0.009	0.009	mg/kg	1/26/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/26/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/26/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/26/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/26/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/26/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/26/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/26/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/26/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/26/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/26/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/26/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/26/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/26/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/26/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/26/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/26/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/26/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/26/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/26/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/26/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/26/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.029	0.029	mg/kg	1/26/94	8260
Propionitrile	<0.029	0.029	mg/kg	1/26/94	8260
Styrene	<0.012	0.012	mg/kg	1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33584
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-010BH 9-10

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/26/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/26/94	8260
Toluene	<0.068	0.068	mg/kg	1/26/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/26/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/26/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/26/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/26/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/26/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/26/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/26/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/26/94	8260

Approved by: R. Aldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 2/1/94
Chemron Sample #: 33587
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 2-3

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.34	0.34	mg/kg	1/26/94	8260
Acrolein	<0.016	0.016	mg/kg	1/26/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/26/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/26/94	8260
Benzene	<0.009	0.009	mg/kg	1/26/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/26/94	8260
Bromoform	<0.006	0.006	mg/kg	1/26/94	8260
Bromomethane	<0.019	0.019	mg/kg	1/26/94	8260
2-Butanone (MEK)	<0.031	0.031	mg/kg	1/26/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/26/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/26/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/26/94	8260
2-Chloroethyl vinyl ether	<0.031	0.031	mg/kg	1/26/94	8260
Chloroform	<0.009	0.009	mg/kg	1/26/94	8260
Chloromethane	<0.016	0.016	mg/kg	1/26/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.019	0.019	mg/kg	1/26/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/26/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/26/94	8260
1,2-Dichlorobenzene	<0.016	0.016	mg/kg	1/26/94	8260
1,3-Dichlorobenzene	<0.016	0.016	mg/kg	1/26/94	8260
1,4-Dichlorobenzene	<0.019	0.019	mg/kg	1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/26/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/26/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
1,1-Dichloroethene	<0.016	0.016	mg/kg	1/26/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/26/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/26/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/26/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/26/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/26/94	8260
Diethyl ether	<0.016	0.016	mg/kg	1/26/94	8260
Ethylbenzene	<0.016	0.016	mg/kg	1/26/94	8260
Ethylmethacrylate	<0.016	0.016	mg/kg	1/26/94	8260
2-Hexanone	<0.019	0.019	mg/kg	1/26/94	8260
Iodomethane	<0.016	0.016	mg/kg	1/26/94	8260
Methacrylonitrile	<0.016	0.016	mg/kg	1/26/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/26/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.031	0.031	mg/kg	1/26/94	8260
Propionitrile	<0.031	0.031	mg/kg	1/26/94	8260
Styrene	<0.012	0.012	mg/kg	1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.016	0.016	mg/kg	1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 2-3

Report Date: 2/1/94
Chemron Sample #: 33587
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94
Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/26/94	8260
Tetrachloroethene	<0.016	0.016	mg/kg	1/26/94	8260
Toluene	<0.068	0.068	mg/kg	1/26/94	8260
1,1,1-Trichloroethane	<0.016	0.016	mg/kg	1/26/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/26/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/26/94	8260
Trichlorofluoromethane	<0.016	0.016	mg/kg	1/26/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/26/94	8260
m,p-Xylene	<0.016	0.016	mg/kg	1/26/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/26/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/26/94	8260
Carbon disulfide	<0.016	0.016	mg/kg	1/26/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33588
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 10-12

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.31	0.31	mg/kg	1/26/94	8260
Acrolein	<0.014	0.014	mg/kg	1/26/94	8260
Acrylonitrile	<0.011	0.011	mg/kg	1/26/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/26/94	8260
Benzene	<0.008	0.008	mg/kg	1/26/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/26/94	8260
Bromoform	<0.006	0.006	mg/kg	1/26/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/26/94	8260
2-Butanone (MEK)	<0.028	0.028	mg/kg	1/26/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/26/94	8260
Chlorobenzene	<0.011	0.011	mg/kg	1/26/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/26/94	8260
2-Chloroethyl vinyl ether	<0.028	0.028	mg/kg	1/26/94	8260
Chloroform	<0.008	0.008	mg/kg	1/26/94	8260
Chloromethane	<0.014	0.014	mg/kg	1/26/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/26/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/26/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/26/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg	1/26/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg	1/26/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg	1/26/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/26/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/26/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/26/94	8260
1,1-Dichloroethene	<0.014	0.014	mg/kg	1/26/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/26/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/26/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/26/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/26/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/26/94	8260
Diethyl ether	<0.014	0.014	mg/kg	1/26/94	8260
Ethylbenzene	<0.014	0.014	mg/kg	1/26/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg	1/26/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/26/94	8260
Iodomethane	<0.014	0.014	mg/kg	1/26/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg	1/26/94	8260
Methylene chloride	<0.011	0.011	mg/kg	1/26/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg	1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.028	0.028	mg/kg	1/26/94	8260
Propionitrile	<0.028	0.028	mg/kg	1/26/94	8260
Styrene	<0.011	0.011	mg/kg	1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg	1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-81

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33588
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 10-12

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/26/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg	1/26/94	8260
Toluene	<0.060	0.060	mg/kg	1/26/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg	1/26/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/26/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/26/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg	1/26/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/26/94	8260
m,p-Xylene	<0.014	0.014	mg/kg	1/26/94	8260
o-Xylene	<0.011	0.011	mg/kg	1/26/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/26/94	8260
Carbon disulfide	<0.014	0.014	mg/kg	1/26/94	8260

Approved by: R. Aldaman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33588PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94
Date & Time Received:
1/21/94 09:15

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 10-12
Spiked with 0.125 mg/kg Volatile Matrix Spike

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.28	0.28	mg/kg		1/26/94	8260
Acrolein	<0.013	0.013	mg/kg		1/26/94	8260
Acrylonitrile	<0.010	0.010	mg/kg		1/26/94	8260
Allyl chloride	<0.008	0.008	mg/kg		1/26/94	8260
Benzene	0.14	0.008	mg/kg	112.0%	1/26/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg		1/26/94	8260
Bromoform	<0.005	0.005	mg/kg		1/26/94	8260
Bromomethane	<0.015	0.015	mg/kg		1/26/94	8260
2-Butanone (MEK)	<0.025	0.025	mg/kg		1/26/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg		1/26/94	8260
Chlorobenzene	0.13	0.010	mg/kg	104.0%	1/26/94	8260
Chloroethane	<0.005	0.005	mg/kg		1/26/94	8260
2-Chloroethyl vinyl ether	<0.025	0.025	mg/kg		1/26/94	8260
Chloroform	<0.008	0.008	mg/kg		1/26/94	8260
Chloromethane	<0.013	0.013	mg/kg		1/26/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg		1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.015	0.015	mg/kg		1/26/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg		1/26/94	8260
Dibromomethane	<0.005	0.005	mg/kg		1/26/94	8260
1,2-Dichlorobenzene	<0.013	0.013	mg/kg		1/26/94	8260
1,3-Dichlorobenzene	<0.013	0.013	mg/kg		1/26/94	8260
1,4-Dichlorobenzene	<0.015	0.015	mg/kg		1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.010	0.010	mg/kg		1/26/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg		1/26/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg		1/26/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg		1/26/94	8260
1,1-Dichloroethene	0.14	0.013	mg/kg	112.0%	1/26/94	8260
cis-1,2-Dichloroethene	<0.010	0.010	mg/kg		1/26/94	8260
trans-1,2-Dichloroethene	<0.010	0.010	mg/kg		1/26/94	8260
1,2-Dichloropropane	<0.005	0.005	mg/kg		1/26/94	8260
cis-1,3-Dichloropropene	<0.005	0.005	mg/kg		1/26/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg		1/26/94	8260
Diethyl ether	<0.013	0.013	mg/kg		1/26/94	8260
Ethylbenzene	<0.013	0.013	mg/kg		1/26/94	8260
Ethylmethacrylate	<0.013	0.013	mg/kg		1/26/94	8260
2-Hexanone	<0.015	0.015	mg/kg		1/26/94	8260
Iodomethane	<0.013	0.013	mg/kg		1/26/94	8260
Methacrylonitrile	<0.013	0.013	mg/kg		1/26/94	8260
Methylene chloride	<0.010	0.010	mg/kg		1/26/94	8260
Methylmethacrylate	<0.010	0.010	mg/kg		1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.025	0.025	mg/kg		1/26/94	8260
Propionitrile	<0.025	0.025	mg/kg		1/26/94	8260
Styrene	<0.010	0.010	mg/kg		1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.013	0.013	mg/kg		1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33588PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 10-12
Spiked with 0.125 mg/kg Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg		1/26/94	8260
Tetrachloroethene	<0.013	0.013	mg/kg		1/26/94	8260
Toluene	0.13	0.040	mg/kg	104.0%	1/26/94	8260
1,1,1-Trichloroethane	<0.013	0.013	mg/kg		1/26/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg		1/26/94	8260
Trichloroethene	0.13	0.005	mg/kg	104.0%	1/26/94	8260
Trichlorofluoromethane	<0.013	0.013	mg/kg		1/26/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg		1/26/94	8260
m,p-Xylene	<0.013	0.013	mg/kg		1/26/94	8260
o-Xylene	<0.010	0.010	mg/kg		1/26/94	8260
Vinyl Chloride	<0.005	0.005	mg/kg		1/26/94	8260
Carbon disulfide	<0.013	0.013	mg/kg		1/26/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33588PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 10-12
Spiked with 0.135 mg/kg Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.30	0.30	mg/kg		1/26/94	8260
Acrolein	<0.014	0.014	mg/kg		1/26/94	8260
Acrylonitrile	<0.011	0.011	mg/kg		1/26/94	8260
Allyl chloride	<0.008	0.008	mg/kg		1/26/94	8260
Benzene	0.18	0.008	mg/kg	133.3%	1/26/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg		1/26/94	8260
Bromoform	<0.005	0.005	mg/kg		1/26/94	8260
Bromomethane	<0.016	0.016	mg/kg		1/26/94	8260
2-Butanone (MEK)	<0.027	0.027	mg/kg		1/26/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg		1/26/94	8260
Chlorobenzene	0.14	0.011	mg/kg	103.7%	1/26/94	8260
Chloroethane	<0.005	0.005	mg/kg		1/26/94	8260
2-Chloroethyl vinyl ether	<0.027	0.027	mg/kg		1/26/94	8260
Chloroform	<0.008	0.008	mg/kg		1/26/94	8260
Chloromethane	<0.014	0.014	mg/kg		1/26/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg		1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.016	0.016	mg/kg		1/26/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg		1/26/94	8260
Dibromomethane	<0.005	0.005	mg/kg		1/26/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg		1/26/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg		1/26/94	8260
1,4-Dichlorobenzene	<0.016	0.016	mg/kg		1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg		1/26/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg		1/26/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg		1/26/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg		1/26/94	8260
1,1-Dichloroethene	0.20	0.014	mg/kg	148.1%	1/26/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg		1/26/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg		1/26/94	8260
1,2-Dichloropropane	<0.005	0.005	mg/kg		1/26/94	8260
cis-1,3-Dichloropropene	<0.005	0.005	mg/kg		1/26/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg		1/26/94	8260
Diethyl ether	<0.014	0.014	mg/kg		1/26/94	8260
Ethylbenzene	<0.014	0.014	mg/kg		1/26/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg		1/26/94	8260
2-Hexanone	<0.016	0.016	mg/kg		1/26/94	8260
Iodomethane	<0.014	0.014	mg/kg		1/26/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg		1/26/94	8260
Methylene chloride	<0.011	0.011	mg/kg		1/26/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg		1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.027	0.027	mg/kg		1/26/94	8260
Propionitrile	<0.027	0.027	mg/kg		1/26/94	8260
Styrene	<0.011	0.011	mg/kg		1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg		1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33588PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94
Date & Time Received:
1/21/94 09:15

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 10-12
Spiked with 0.135 mg/kg Volatile Matrix Spike

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg		1/26/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg		1/26/94	8260
Toluene	0.14	0.040	mg/kg	103.7%	1/26/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg		1/26/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg		1/26/94	8260
Trichloroethene	0.14	0.005	mg/kg	103.7%	1/26/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg		1/26/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg		1/26/94	8260
m,p-Xylene	<0.014	0.014	mg/kg		1/26/94	8260
o-Xylene	<0.011	0.011	mg/kg		1/26/94	8260
Vinyl Chloride	<0.005	0.005	mg/kg		1/26/94	8260
Carbon disulfide	<0.014	0.014	mg/kg		1/26/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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File Name	Date	Surr #1 %R	Surr #2 %R	Surr #3 %R		Istd 1	Istd 2	Istd 3
01BFB26.D	1/26/94			106.64		1.53E+06	6.81E+06	2.13E+06
01VSTD26.D	1/26/94	93.06	100.48	97.98		1.30E+06	5.70E+06	1.64E+06
01VCHK26.D	1/26/94	94.59	102.60	100.14		1.27E+06	5.54E+06	1.59E+06
01BLK26.D	1/26/94	89.95	100.21	92.08		1.30E+06	5.51E+06	1.68E+06
33588S.D	1/26/94	92.26	104.16	99.24		1.24E+06	5.29E+06	1.61E+06
33588PK.D	1/26/94	89.51	102.53	90.99		9.42E+05	4.93E+06	1.39E+06
33588PKD.D	1/26/94	89.05	98.14	90.73		7.07E+05	4.41E+06	1.19E+06
33573S.D	1/26/94	92.29	100.42	98.29		1.01E+06	4.78E+06	1.38E+06
33579S.D	1/26/94	83.00	100.75	97.42		1.32E+06	5.42E+06	1.44E+06
33587S.D	1/26/94	82.51	100.32	95.72		8.69E+05	4.53E+06	1.10E+06
01BLK26B.D	1/26/94	93.58	96.18	106.77		7.57E+05	5.48E+06	1.32E+06
33586.D	1/26/94	95.66	99.32	103.55		7.78E+05	5.49E+06	1.44E+06
33586PK.D	1/26/94	97.62	96.26	111.31		7.95E+05	5.78E+06	1.43E+06
33586PKD.D	1/26/94	96.38	101.66	108.48		7.58E+05	5.33E+06	1.43E+06
33585.D	1/26/94	93.00	96.80	102.57		6.98E+05	5.08E+06	1.36E+06
33589.D	1/26/94	90.95	97.87	100.97		3.81E+05	2.46E+06	6.64E+05
Mean		91.56	99.85	100.18			Area Limits	
Std. Dev.		4.34	2.41	6.17	L	6.50E+05	2.85E+06	8.21E+05
% Std. Dev.		4.74	2.41	6.16	H	2.60E+06	1.14E+07	3.28E+06

		Results (ppm)	TGT (ppm)	%Rec
33588	Benzene	0.14	0.125	112.0%
Soil Matrix	Chlorobenzene	0.13	0.125	104.0%
Spike	1,1-Dichloroethene	0.14	0.125	112.0%
	Toluene	0.13	0.125	104.0%
	Trichloroethene	0.13	0.125	104.0%
33588	Benzene	0.18	0.135	133.3%
Soil Matrix	Chlorobenzene	0.14	0.135	103.7%
Spike Dup.	1,1-Dichloroethene	0.20	0.135	148.1%
	Toluene	0.14	0.135	103.7%
	Trichloroethene	0.14	0.135	103.7%

		(ppm)	Rel. % Diff.
Dup %P	Benzene	0.14	
		0.18	-25.0%
	Chlorobenzene	0.13	
		0.14	-7.4%
	1,1-Dichloroethene	0.14	
		0.20	-35.3%
	Toluene	0.13	
		0.14	-7.4%
	Trichloroethene	0.13	
		0.14	-7.4%

Surrogate Recovery Limits	Water	Soil
1,2-Dichloroethane, d4	76-110	70-121
Toluene, d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33569
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
EB-1

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l	1/20/94	8260
Acrolein	<0.001	0.001	mg/l	1/20/94	8260
Acrylonitrile	<0.001	0.001	mg/l	1/20/94	8260
Allyl chloride	<0.001	0.001	mg/l	1/20/94	8260
Benzene	<0.001	0.001	mg/l	1/20/94	8260
Bromodichloromethane	<0.001	0.001	mg/l	1/20/94	8260
Bromoform	<0.001	0.001	mg/l	1/20/94	8260
Bromomethane	<0.001	0.001	mg/l	1/20/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l	1/20/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l	1/20/94	8260
Chlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
Chloroethane	<0.000	0.000	mg/l	1/20/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l	1/20/94	8260
Chloroform	<0.001	0.001	mg/l	1/20/94	8260
Chloromethane	<0.001	0.001	mg/l	1/20/94	8260
Dibromochloromethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l	1/20/94	8260
Dibromomethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l	1/20/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l	1/20/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,1-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l	1/20/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l	1/20/94	8260
Diethyl ether	<0.001	0.001	mg/l	1/20/94	8260
Ethylbenzene	<0.001	0.001	mg/l	1/20/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l	1/20/94	8260
2-Hexanone	<0.010	0.010	mg/l	1/20/94	8260
Iodomethane	<0.001	0.001	mg/l	1/20/94	8260
Methacrylonitrile	<0.001	0.001	mg/l	1/20/94	8260
Methylene chloride	<0.001	0.001	mg/l	1/20/94	8260
Methylmethacrylate	<0.001	0.001	mg/l	1/20/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l	1/20/94	8260
Propionitrile	<0.002	0.002	mg/l	1/20/94	8260
Styrene	<0.001	0.001	mg/l	1/20/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l	1/20/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33569
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
EB-1

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l	1/20/94	8260
Tetrachloroethene	<0.001	0.001	mg/l	1/20/94	8260
Toluene	<0.001	0.001	mg/l	1/20/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l	1/20/94	8260
Trichloroethene	<0.001	0.001	mg/l	1/20/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l	1/20/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l	1/20/94	8260
m,p-Xylene	<0.001	0.001	mg/l	1/20/94	8260
o-Xylene	<0.001	0.001	mg/l	1/20/94	8260
Vinyl Chloride	<0.001	0.001	mg/l	1/20/94	8260
Carbon disulfide	<0.001	0.001	mg/l	1/20/94	8260

Approved by: R. Eidman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33569PK
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
EB-1
Spiked with 0.010 mg/l Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l		1/20/94	8260
Acrolein	<0.001	0.001	mg/l		1/20/94	8260
Acrylonitrile	<0.001	0.001	mg/l		1/20/94	8260
Allyl chloride	<0.001	0.001	mg/l		1/20/94	8260
Benzene	0.011	0.001	mg/l	110.0%	1/20/94	8260
Bromodichloromethane	<0.001	0.001	mg/l		1/20/94	8260
Bromoform	<0.001	0.001	mg/l		1/20/94	8260
Bromomethane	<0.001	0.001	mg/l		1/20/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l		1/20/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l		1/20/94	8260
Chlorobenzene	0.011	0.001	mg/l	110.0%	1/20/94	8260
Chloroethane	<0.001	0.001	mg/l		1/20/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l		1/20/94	8260
Chloroform	<0.001	0.001	mg/l		1/20/94	8260
Chloromethane	<0.001	0.001	mg/l		1/20/94	8260
Dibromochloromethane	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l		1/20/94	8260
Dibromomethane	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l		1/20/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l		1/20/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l		1/20/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l		1/20/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l		1/20/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l		1/20/94	8260
1,1-Dichloroethene	0.012	0.001	mg/l	120.0%	1/20/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l		1/20/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l		1/20/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l		1/20/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l		1/20/94	8260
Diethyl ether	<0.001	0.001	mg/l		1/20/94	8260
Ethylbenzene	<0.001	0.001	mg/l		1/20/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l		1/20/94	8260
2-Hexanone	<0.010	0.010	mg/l		1/20/94	8260
Iodomethane	<0.001	0.001	mg/l		1/20/94	8260
Methacrylonitrile	<0.001	0.001	mg/l		1/20/94	8260
Methylene chloride	<0.001	0.001	mg/l		1/20/94	8260
Methylmethacrylate	<0.001	0.001	mg/l		1/20/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l		1/20/94	8260
Propionitrile	<0.002	0.002	mg/l		1/20/94	8260
Styrene	<0.001	0.001	mg/l		1/20/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l		1/20/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33569PK
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
EB-1
Spiked with 0.010 mg/l Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l		1/20/94	8260
Tetrachloroethene	<0.001	0.001	mg/l		1/20/94	8260
Toluene	0.012	0.001	mg/l	120.0%	1/20/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l		1/20/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l		1/20/94	8260
Trichloroethene	0.012	0.001	mg/l	120.0%	1/20/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l		1/20/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l		1/20/94	8260
m,p-Xylene	<0.001	0.001	mg/l		1/20/94	8260
o-Xylene	<0.001	0.001	mg/l		1/20/94	8260
Vinyl Chloride	<0.001	0.001	mg/l		1/20/94	8260
Carbon disulfide	<0.001	0.001	mg/l		1/20/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33569PKD
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
EB-1
Spiked with 0.010 mg/l Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l		1/20/94	8260
Acrolein	<0.001	0.001	mg/l		1/20/94	8260
Acrylonitrile	<0.001	0.001	mg/l		1/20/94	8260
Allyl chloride	<0.001	0.001	mg/l		1/20/94	8260
Benzene	0.011	0.001	mg/l	110.0%	1/20/94	8260
Bromodichloromethane	<0.001	0.001	mg/l		1/20/94	8260
Bromoform	<0.001	0.001	mg/l		1/20/94	8260
Bromomethane	<0.001	0.001	mg/l		1/20/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l		1/20/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l		1/20/94	8260
Chlorobenzene	0.011	0.001	mg/l	110.0%	1/20/94	8260
Chloroethane	<0.001	0.001	mg/l		1/20/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l		1/20/94	8260
Chloroform	<0.001	0.001	mg/l		1/20/94	8260
Chloromethane	<0.001	0.001	mg/l		1/20/94	8260
Dibromochloromethane	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l		1/20/94	8260
Dibromomethane	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l		1/20/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l		1/20/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l		1/20/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l		1/20/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l		1/20/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l		1/20/94	8260
1,1-Dichloroethene	0.012	0.001	mg/l	120.0%	1/20/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l		1/20/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l		1/20/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l		1/20/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l		1/20/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l		1/20/94	8260
Diethyl ether	<0.001	0.001	mg/l		1/20/94	8260
Ethylbenzene	<0.001	0.001	mg/l		1/20/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l		1/20/94	8260
2-Hexanone	<0.010	0.010	mg/l		1/20/94	8260
Iodomethane	<0.001	0.001	mg/l		1/20/94	8260
Methacrylonitrile	<0.001	0.001	mg/l		1/20/94	8260
Methylene chloride	<0.001	0.001	mg/l		1/20/94	8260
Methylmethacrylate	<0.001	0.001	mg/l		1/20/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l		1/20/94	8260
Propionitrile	<0.002	0.002	mg/l		1/20/94	8260
Styrene	<0.001	0.001	mg/l		1/20/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l		1/20/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33569PKD
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
EB-1
Spiked with 0.010 mg/l Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l		1/20/94	8260
Tetrachloroethene	<0.001	0.001	mg/l		1/20/94	8260
Toluene	0.012	0.001	mg/l	120.0%	1/20/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l		1/20/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l		1/20/94	8260
Trichloroethene	0.012	0.001	mg/l	120.0%	1/20/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l		1/20/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l		1/20/94	8260
m,p-Xylene	<0.001	0.001	mg/l		1/20/94	8260
o-Xylene	<0.001	0.001	mg/l		1/20/94	8260
Vinyl Chloride	<0.001	0.001	mg/l		1/20/94	8260
Carbon disulfide	<0.001	0.001	mg/l		1/20/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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File Name	Date	Surr #1 %R	Surr #2 %R	Surr #3 %R	Istd 1	Istd 2	Istd 3
01BFB20.D	1/20/94			112.02	1.36E+06	6.40E+06	2.07E+06
01VSTD20.D	1/20/94	103.90	107.45	98.30	1.10E+06	4.93E+06	1.45E+06
01VCHK20.D	1/20/94	100.49	104.65	99.04	1.18E+06	5.30E+06	1.69E+06
01BLK20.D	1/20/94	95.71	97.63	103.23	6.44E+05	5.18E+06	1.36E+06
33552.D	1/20/94	92.79	98.80	98.27	6.26E+05	5.13E+06	1.38E+06
33569.D	1/20/94	88.82	102.09	87.48	6.05E+05	5.05E+06	1.31E+06
33570.D	1/20/94	99.48	100.57	110.51	5.54E+05	4.38E+06	1.13E+06
33569PK.D	1/20/94	100.08	102.92	88.19	1.80E+05	1.35E+06	3.83E+05
33569PKD.D	1/20/94	101.96	99.63	106.34	6.27E+05	5.07E+06	1.31E+06
33571.D	1/20/94	94.81	99.92	106.03	6.48E+05	5.10E+06	1.32E+06
Mean		97.56	101.52	100.94		Area Limits	
Std. Dev.		4.85	3.10	8.41	L 5.50E+05	2.47E+06	7.25E+05
% Std. Dev.		4.97	3.05	8.33	H 2.20E+06	9.86E+06	2.90E+06

		Results (ppm)	TGT (ppm)	%Rec
33569	Benzene	0.011	0.010	110.0%
Water Matrix	Chlorobenzene	0.011	0.010	110.0%
Spike	1,1-Dichloroethene	0.012	0.010	120.0%
	Toluene	0.012	0.010	120.0%
	Trichloroethene	0.012	0.010	120.0%
33569	Benzene	0.011	0.010	110.0%
Water Matrix	Chlorobenzene	0.011	0.010	110.0%
Spike Dup.	1,1-Dichloroethene	0.012	0.010	120.0%
	Toluene	0.012	0.010	120.0%
	Trichloroethene	0.012	0.010	120.0%

		(ppm)	Rel. % Diff.
Dup %P	Benzene	0.011	
		0.011	0.0%
	Chlorobenzene	0.011	
		0.011	0.0%
	1,1-Dichloroethene	0.012	
		0.012	0.0%
	Toluene	0.012	
		0.012	0.0%
	Trichloroethene	0.012	
		0.012	0.0%

Surrogate Recovery Limits	Water	Soil
1,2-Dichloroethane, d4	76-110	70-121
Toluene, d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33585
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
EB-2

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l	1/26/94	8260
Acrolein	<0.001	0.001	mg/l	1/26/94	8260
Acrylonitrile	<0.001	0.001	mg/l	1/26/94	8260
Allyl chloride	<0.001	0.001	mg/l	1/26/94	8260
Benzene	<0.001	0.001	mg/l	1/26/94	8260
Bromodichloromethane	<0.001	0.001	mg/l	1/26/94	8260
Bromoform	<0.001	0.001	mg/l	1/26/94	8260
Bromomethane	<0.001	0.001	mg/l	1/26/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l	1/26/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l	1/26/94	8260
Chlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
Chloroethane	<0.001	0.001	mg/l	1/26/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l	1/26/94	8260
Chloroform	0.018	0.001	mg/l	1/26/94	8260
Chloromethane	<0.001	0.001	mg/l	1/26/94	8260
Dibromochloromethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l	1/26/94	8260
Dibromomethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l	1/26/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l	1/26/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,1-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l	1/26/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l	1/26/94	8260
Diethyl ether	<0.001	0.001	mg/l	1/26/94	8260
Ethylbenzene	<0.001	0.001	mg/l	1/26/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l	1/26/94	8260
2-Hexanone	<0.010	0.010	mg/l	1/26/94	8260
Iodomethane	<0.001	0.001	mg/l	1/26/94	8260
Methacrylonitrile	<0.001	0.001	mg/l	1/26/94	8260
Methylene chloride	<0.001	0.001	mg/l	1/26/94	8260
Methylmethacrylate	<0.001	0.001	mg/l	1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l	1/26/94	8260
Propionitrile	<0.002	0.002	mg/l	1/26/94	8260
Styrene	<0.001	0.001	mg/l	1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l	1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33585
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
EB-2

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l	1/26/94	8260
Tetrachloroethene	<0.001	0.001	mg/l	1/26/94	8260
Toluene	<0.001	0.001	mg/l	1/26/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l	1/26/94	8260
Trichloroethene	<0.001	0.001	mg/l	1/26/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l	1/26/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l	1/26/94	8260
m,p-Xylene	<0.001	0.001	mg/l	1/26/94	8260
o-Xylene	<0.001	0.001	mg/l	1/26/94	8260
Vinyl Chloride	<0.001	0.001	mg/l	1/26/94	8260
Carbon disulfide	<0.001	0.001	mg/l	1/26/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33570
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
FB-1

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l	1/20/94	8260
Acrolein	<0.001	0.001	mg/l	1/20/94	8260
Acrylonitrile	<0.001	0.001	mg/l	1/20/94	8260
Allyl chloride	<0.001	0.001	mg/l	1/20/94	8260
Benzene	<0.001	0.001	mg/l	1/20/94	8260
Bromodichloromethane	<0.001	0.001	mg/l	1/20/94	8260
Bromoform	<0.001	0.001	mg/l	1/20/94	8260
Bromomethane	<0.001	0.001	mg/l	1/20/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l	1/20/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l	1/20/94	8260
Chlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
Chloroethane	<0.000	0.000	mg/l	1/20/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l	1/20/94	8260
Chloroform	<0.001	0.001	mg/l	1/20/94	8260
Chloromethane	<0.001	0.001	mg/l	1/20/94	8260
Dibromochloromethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l	1/20/94	8260
Dibromomethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l	1/20/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l	1/20/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,1-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l	1/20/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l	1/20/94	8260
Diethyl ether	<0.001	0.001	mg/l	1/20/94	8260
Ethylbenzene	<0.001	0.001	mg/l	1/20/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l	1/20/94	8260
2-Hexanone	<0.010	0.010	mg/l	1/20/94	8260
Iodomethane	<0.001	0.001	mg/l	1/20/94	8260
Methacrylonitrile	<0.001	0.001	mg/l	1/20/94	8260
Methylene chloride	<0.001	0.001	mg/l	1/20/94	8260
Methylmethacrylate	<0.001	0.001	mg/l	1/20/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l	1/20/94	8260
Propionitrile	<0.002	0.002	mg/l	1/20/94	8260
Styrene	<0.001	0.001	mg/l	1/20/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l	1/20/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33570
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
FB-1

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l	1/20/94	8260
Tetrachloroethene	<0.001	0.001	mg/l	1/20/94	8260
Toluene	<0.001	0.001	mg/l	1/20/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l	1/20/94	8260
Trichloroethene	<0.001	0.001	mg/l	1/20/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l	1/20/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l	1/20/94	8260
m,p-Xylene	<0.001	0.001	mg/l	1/20/94	8260
o-Xylene	<0.001	0.001	mg/l	1/20/94	8260
Vinyl Chloride	<0.001	0.001	mg/l	1/20/94	8260
Carbon disulfide	<0.001	0.001	mg/l	1/20/94	8260

Approved by: R. Aldrich

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33586
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
FB-2

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l	1/26/94	8260
Acrolein	<0.001	0.001	mg/l	1/26/94	8260
Acrylonitrile	<0.001	0.001	mg/l	1/26/94	8260
Allyl chloride	<0.001	0.001	mg/l	1/26/94	8260
Benzene	<0.001	0.001	mg/l	1/26/94	8260
Bromodichloromethane	<0.001	0.001	mg/l	1/26/94	8260
Bromoform	<0.001	0.001	mg/l	1/26/94	8260
Bromomethane	<0.001	0.001	mg/l	1/26/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l	1/26/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l	1/26/94	8260
Chlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
Chloroethane	<0.001	0.001	mg/l	1/26/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l	1/26/94	8260
Chloroform	0.005	0.001	mg/l	1/26/94	8260
Chloromethane	<0.001	0.001	mg/l	1/26/94	8260
Dibromochloromethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l	1/26/94	8260
Dibromomethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l	1/26/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l	1/26/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,1-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l	1/26/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l	1/26/94	8260
Diethyl ether	<0.001	0.001	mg/l	1/26/94	8260
Ethylbenzene	<0.001	0.001	mg/l	1/26/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l	1/26/94	8260
2-Hexanone	<0.010	0.010	mg/l	1/26/94	8260
Iodomethane	<0.001	0.001	mg/l	1/26/94	8260
Methacrylonitrile	<0.001	0.001	mg/l	1/26/94	8260
Methylene chloride	<0.001	0.001	mg/l	1/26/94	8260
Methylmethacrylate	<0.001	0.001	mg/l	1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l	1/26/94	8260
Propionitrile	<0.002	0.002	mg/l	1/26/94	8260
Styrene	<0.001	0.001	mg/l	1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l	1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33586
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
FB-2

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l	1/26/94	8260
Tetrachloroethene	<0.001	0.001	mg/l	1/26/94	8260
Toluene	<0.001	0.001	mg/l	1/26/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l	1/26/94	8260
Trichloroethene	<0.001	0.001	mg/l	1/26/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l	1/26/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l	1/26/94	8260
m,p-Xylene	<0.001	0.001	mg/l	1/26/94	8260
o-Xylene	<0.001	0.001	mg/l	1/26/94	8260
Vinyl Chloride	<0.001	0.001	mg/l	1/26/94	8260
Carbon disulfide	<0.001	0.001	mg/l	1/26/94	8260

Approved by: R. Elman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33586PK
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
FB-2
Spiked with 0.050 mg/l Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l		1/26/94	8260
Acrolein	<0.001	0.001	mg/l		1/26/94	8260
Acrylonitrile	<0.001	0.001	mg/l		1/26/94	8260
Allyl chloride	<0.001	0.001	mg/l		1/26/94	8260
Benzene	0.045	0.001	mg/l	90.0%	1/26/94	8260
Bromodichloromethane	<0.001	0.001	mg/l		1/26/94	8260
Bromoform	<0.001	0.001	mg/l		1/26/94	8260
Bromomethane	<0.001	0.001	mg/l		1/26/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l		1/26/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l		1/26/94	8260
Chlorobenzene	0.052	0.001	mg/l	104.0%	1/26/94	8260
Chloroethane	<0.001	0.001	mg/l		1/26/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l		1/26/94	8260
Chloroform	0.004	0.001	mg/l		1/26/94	8260
Chloromethane	<0.001	0.001	mg/l		1/26/94	8260
Dibromochloromethane	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l		1/26/94	8260
Dibromomethane	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l		1/26/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l		1/26/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l		1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l		1/26/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l		1/26/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l		1/26/94	8260
1,1-Dichloroethene	0.049	0.001	mg/l	98.0%	1/26/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l		1/26/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l		1/26/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l		1/26/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l		1/26/94	8260
Diethyl ether	<0.001	0.001	mg/l		1/26/94	8260
Ethylbenzene	<0.001	0.001	mg/l		1/26/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l		1/26/94	8260
2-Hexanone	<0.010	0.010	mg/l		1/26/94	8260
Iodomethane	<0.001	0.001	mg/l		1/26/94	8260
Methacrylonitrile	<0.001	0.001	mg/l		1/26/94	8260
Methylene chloride	<0.001	0.001	mg/l		1/26/94	8260
Methylmethacrylate	<0.001	0.001	mg/l		1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l		1/26/94	8260
Propionitrile	<0.002	0.002	mg/l		1/26/94	8260
Styrene	<0.001	0.001	mg/l		1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l		1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33586PK
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
FB-2
Spiked with 0.050 mg/l Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l		1/26/94	8260
Tetrachloroethene	<0.001	0.001	mg/l		1/26/94	8260
Toluene	0.048	0.001	mg/l	96.0%	1/26/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l		1/26/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l		1/26/94	8260
Trichloroethene	0.049	0.001	mg/l	98.0%	1/26/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l		1/26/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l		1/26/94	8260
m,p-Xylene	<0.001	0.001	mg/l		1/26/94	8260
o-Xylene	<0.001	0.001	mg/l		1/26/94	8260
Vinyl Chloride	<0.001	0.001	mg/l		1/26/94	8260
Carbon disulfide	<0.001	0.001	mg/l		1/26/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33586PKD
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
FB-2
Spiked with 0.050 mg/l Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l		1/26/94	8260
Acrolein	<0.001	0.001	mg/l		1/26/94	8260
Acrylonitrile	<0.001	0.001	mg/l		1/26/94	8260
Allyl chloride	<0.001	0.001	mg/l		1/26/94	8260
Benzene	0.047	0.001	mg/l	94.0%	1/26/94	8260
Bromodichloromethane	<0.001	0.001	mg/l		1/26/94	8260
Bromoform	<0.001	0.001	mg/l		1/26/94	8260
Bromomethane	<0.001	0.001	mg/l		1/26/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l		1/26/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l		1/26/94	8260
Chlorobenzene	0.052	0.001	mg/l	104.0%	1/26/94	8260
Chloroethane	<0.000	0.001	mg/l		1/26/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l		1/26/94	8260
Chloroform	0.005	0.001	mg/l		1/26/94	8260
Chloromethane	<0.001	0.001	mg/l		1/26/94	8260
Dibromochloromethane	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l		1/26/94	8260
Dibromomethane	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l		1/26/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l		1/26/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l		1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l		1/26/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l		1/26/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l		1/26/94	8260
1,1-Dichloroethene	0.050	0.001	mg/l	100.0%	1/26/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l		1/26/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l		1/26/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l		1/26/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l		1/26/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l		1/26/94	8260
Diethyl ether	<0.001	0.001	mg/l		1/26/94	8260
Ethylbenzene	<0.001	0.001	mg/l		1/26/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l		1/26/94	8260
2-Hexanone	<0.010	0.010	mg/l		1/26/94	8260
Iodomethane	<0.001	0.001	mg/l		1/26/94	8260
Methacrylonitrile	<0.001	0.001	mg/l		1/26/94	8260
Methylene chloride	<0.001	0.001	mg/l		1/26/94	8260
Methylmethacrylate	<0.001	0.001	mg/l		1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l		1/26/94	8260
Propionitrile	<0.002	0.002	mg/l		1/26/94	8260
Styrene	<0.001	0.001	mg/l		1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l		1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-81

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33586PKD
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
FB-2
Spiked with 0.050 mg/l Volatile Matrix Spike

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l		1/26/94	8260
Tetrachloroethene	<0.001	0.001	mg/l		1/26/94	8260
Toluene	0.052	0.001	mg/l	104.0%	1/26/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l		1/26/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l		1/26/94	8260
Trichloroethene	0.052	0.001	mg/l	104.0%	1/26/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l		1/26/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l		1/26/94	8260
m,p-Xylene	<0.001	0.001	mg/l		1/26/94	8260
o-Xylene	<0.001	0.001	mg/l		1/26/94	8260
Vinyl Chloride	<0.001	0.001	mg/l		1/26/94	8260
Carbon disulfide	<0.001	0.001	mg/l		1/26/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign (" "), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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File Name	Date	Surr #1 %R	Surr #2 %R	Surr #3 %R	Istd 1	Istd 2	Istd 3
01BFB26.D	1/26/94			106.64	1.53E+06	6.81E+06	2.13E+06
01VSTD26.D	1/26/94	93.06	100.48	97.98	1.30E+06	5.70E+06	1.64E+06
01VCHK26.D	1/26/94	94.59	102.60	100.14	1.27E+06	5.54E+06	1.59E+06
01BLK26.D	1/26/94	89.95	100.21	92.08	1.30E+06	5.51E+06	1.68E+06
33588S.D	1/26/94	92.26	104.16	99.24	1.24E+06	5.29E+06	1.61E+06
33588PK.D	1/26/94	89.51	102.53	90.99	9.42E+05	4.93E+06	1.39E+06
33588PKD.D	1/26/94	89.05	98.14	90.73	7.07E+05	4.41E+06	1.19E+06
33573S.D	1/26/94	92.29	100.42	98.29	1.01E+06	4.78E+06	1.38E+06
33579S.D	1/26/94	83.00	100.75	97.42	1.32E+06	5.42E+06	1.44E+06
33587S.D	1/26/94	82.51	100.32	95.72	8.69E+05	4.53E+06	1.10E+06
01BLK26B.D	1/26/94	93.58	96.18	106.77	7.57E+05	5.48E+06	1.32E+06
33586.D	1/26/94	95.66	99.32	103.55	7.78E+05	5.49E+06	1.44E+06
33586PK.D	1/26/94	97.62	96.26	111.31	7.95E+05	5.78E+06	1.43E+06
33586PKD.D	1/26/94	96.38	101.66	108.48	7.58E+05	5.33E+06	1.43E+06
33585.D	1/26/94	93.00	96.80	102.57	6.98E+05	5.08E+06	1.36E+06
33589.D	1/26/94	90.95	97.87	100.97	3.81E+05	2.46E+06	6.64E+05
Mean		91.56	99.85	100.18		Area Limits	
Std. Dev.		4.34	2.41	6.17	L 6.50E+05	2.85E+06	8.21E+05
% Std. Dev.		4.74	2.41	6.16	H 2.60E+06	1.14E+07	3.28E+06

		Results (ppm)	TGT (ppm)	%Rec
33586 Water Matrix Spike	Benzene	0.045	0.050	90.0%
	Chlorobenzene	0.052	0.050	104.0%
	1,1-Dichloroethene	0.049	0.050	98.0%
	Toluene	0.048	0.050	96.0%
	Trichloroethene	0.049	0.050	98.0%
33586 Water Matrix Spike Dup.	Benzene	0.047	0.050	94.0%
	Chlorobenzene	0.052	0.050	104.0%
	1,1-Dichloroethene	0.050	0.050	100.0%
	Toluene	0.052	0.050	104.0%
	Trichloroethene	0.052	0.050	104.0%

		(ppm)	Rel. % Diff.
Dup %P	Benzene	0.045	
		0.047	-4.3%
	Chlorobenzene	0.052	
		0.052	0.0%
	1,1-Dichloroethene	0.049	
		0.050	-2.0%
	Toluene	0.048	
		0.052	-8.0%
	Trichloroethene	0.049	
		0.052	-5.9%

Surrogate Recovery Limits	Water	Soil
1,2-Dichloroethane, d4	76-110	70-121
Toluene, d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Quality Control Corrective Action Form

Date: 2-1-94

Analyst: G. QUICK

Analysis: VOLATILE MATRIX SPIKE DUPLICATES

Brief description of quality control failure: PERCENT RECOVERIES AND PRECISION OF BENZENE AND 1,1-DICHLOROETHENE OF THE DUPLICATE MATRIX SPIKE SAMPLE WERE ABOVE THE ACCEPTED PERCENT RECOVERY AND PRECISION INTERVAL

	Sample #(s)	% Recovery	% Precision	Comments
1st	33588 PK	112.0	25.0%	BENZENE
2nd		133.3		
3rd	33588 PKD	112.0	35.3%	1,1-DICHLOROETHENE
4th		148.1		

Remarks: THE RECOVERY OF THE FIRST INTERNAL STANDARD OF THE SECOND SPIKE DUPLICATE WAS LOW. SINCE QUANTITATION IS RELATIVE TO THE INTERNAL STANDARDS, THE RECOVERIES WERE QUANTITATED AS HIGHER. PERCENT RECOVERIES OF BENZENE AND 1,1-DICHLOROETHENE OF A CHECK SAMPLE WERE BOTH 90%.

Approved by: [signature] Date: 02/01/94

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33552
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
TB-1

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l	1/20/94	8260
Acrolein	<0.001	0.001	mg/l	1/20/94	8260
Acrylonitrile	<0.001	0.001	mg/l	1/20/94	8260
Allyl chloride	<0.001	0.001	mg/l	1/20/94	8260
Benzene	<0.001	0.001	mg/l	1/20/94	8260
Bromodichloromethane	<0.001	0.001	mg/l	1/20/94	8260
Bromoform	<0.001	0.001	mg/l	1/20/94	8260
Bromomethane	<0.001	0.001	mg/l	1/20/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l	1/20/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l	1/20/94	8260
Chlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
Chloroethane	<0.000	0.000	mg/l	1/20/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l	1/20/94	8260
Chloroform	<0.001	0.001	mg/l	1/20/94	8260
Chloromethane	<0.001	0.001	mg/l	1/20/94	8260
Dibromochloromethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l	1/20/94	8260
Dibromomethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l	1/20/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l	1/20/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,1-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l	1/20/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l	1/20/94	8260
Diethyl ether	<0.001	0.001	mg/l	1/20/94	8260
Ethylbenzene	<0.001	0.001	mg/l	1/20/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l	1/20/94	8260
2-Hexanone	<0.010	0.010	mg/l	1/20/94	8260
Iodomethane	<0.001	0.001	mg/l	1/20/94	8260
Methacrylonitrile	<0.001	0.001	mg/l	1/20/94	8260
Methylene chloride	<0.001	0.001	mg/l	1/20/94	8260
Methylmethacrylate	<0.001	0.001	mg/l	1/20/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l	1/20/94	8260
Propionitrile	<0.002	0.002	mg/l	1/20/94	8260
Styrene	<0.001	0.001	mg/l	1/20/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l	1/20/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33552
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
TB-1

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l	1/20/94	8260
Tetrachloroethene	<0.001	0.001	mg/l	1/20/94	8260
Toluene	<0.001	0.001	mg/l	1/20/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l	1/20/94	8260
Trichloroethene	<0.001	0.001	mg/l	1/20/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l	1/20/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l	1/20/94	8260
m,p-Xylene	<0.001	0.001	mg/l	1/20/94	8260
o-Xylene	<0.001	0.001	mg/l	1/20/94	8260
Vinyl Chloride	<0.001	0.001	mg/l	1/20/94	8260
Carbon disulfide	<0.001	0.001	mg/l	1/20/94	8260

Approved by: R. Eldridge

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33571
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
TB-

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l	1/20/94	8260
Acrolein	<0.001	0.001	mg/l	1/20/94	8260
Acrylonitrile	<0.001	0.001	mg/l	1/20/94	8260
Allyl chloride	<0.001	0.001	mg/l	1/20/94	8260
Benzene	<0.001	0.001	mg/l	1/20/94	8260
Bromodichloromethane	<0.001	0.001	mg/l	1/20/94	8260
Bromoform	<0.001	0.001	mg/l	1/20/94	8260
Bromomethane	<0.001	0.001	mg/l	1/20/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l	1/20/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l	1/20/94	8260
Chlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
Chloroethane	<0.000	0.000	mg/l	1/20/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l	1/20/94	8260
Chloroform	<0.001	0.001	mg/l	1/20/94	8260
Chloromethane	<0.001	0.001	mg/l	1/20/94	8260
Dibromochloromethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l	1/20/94	8260
Dibromomethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l	1/20/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l	1/20/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,1-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l	1/20/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l	1/20/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l	1/20/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l	1/20/94	8260
Diethyl ether	<0.001	0.001	mg/l	1/20/94	8260
Ethylbenzene	<0.001	0.001	mg/l	1/20/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l	1/20/94	8260
2-Hexanone	<0.010	0.010	mg/l	1/20/94	8260
Iodomethane	<0.001	0.001	mg/l	1/20/94	8260
Methacrylonitrile	<0.001	0.001	mg/l	1/20/94	8260
Methylene chloride	<0.001	0.001	mg/l	1/20/94	8260
Methylmethacrylate	<0.001	0.001	mg/l	1/20/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l	1/20/94	8260
Propionitrile	<0.002	0.002	mg/l	1/20/94	8260
Styrene	<0.001	0.001	mg/l	1/20/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l	1/20/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/21/94
Chemron Sample #: 33571
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
TB A2 phyh

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l	1/20/94	8260
Tetrachloroethene	<0.001	0.001	mg/l	1/20/94	8260
Toluene	<0.001	0.001	mg/l	1/20/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l	1/20/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l	1/20/94	8260
Trichloroethene	<0.001	0.001	mg/l	1/20/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l	1/20/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l	1/20/94	8260
m,p-Xylene	<0.001	0.001	mg/l	1/20/94	8260
o-Xylene	<0.001	0.001	mg/l	1/20/94	8260
Vinyl Chloride	<0.001	0.001	mg/l	1/20/94	8260
Carbon disulfide	<0.001	0.001	mg/l	1/20/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33589
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
TB-3

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.010	0.010	mg/l	1/26/94	8260
Acrolein	<0.001	0.001	mg/l	1/26/94	8260
Acrylonitrile	<0.001	0.001	mg/l	1/26/94	8260
Allyl chloride	<0.001	0.001	mg/l	1/26/94	8260
Benzene	<0.001	0.001	mg/l	1/26/94	8260
Bromodichloromethane	<0.001	0.001	mg/l	1/26/94	8260
Bromoform	<0.001	0.001	mg/l	1/26/94	8260
Bromomethane	<0.001	0.001	mg/l	1/26/94	8260
2-Butanone (MEK)	<0.010	0.010	mg/l	1/26/94	8260
Carbon tetrachloride	<0.001	0.001	mg/l	1/26/94	8260
Chlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
Chloroethane	<0.001	0.001	mg/l	1/26/94	8260
2-Chloroethyl vinyl ether	<0.002	0.002	mg/l	1/26/94	8260
Chloroform	0.020	0.001	mg/l	1/26/94	8260
Chloromethane	<0.001	0.001	mg/l	1/26/94	8260
Dibromochloromethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dibromo-3-chloropropane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dibromoethane	<0.001	0.001	mg/l	1/26/94	8260
Dibromomethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
1,3-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
1,4-Dichlorobenzene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,4-Dichloro-2-butene	<0.001	0.001	mg/l	1/26/94	8260
Dichlorodifluoromethane	<0.001	0.001	mg/l	1/26/94	8260
1,1-Dichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,1-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
cis-1,2-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,2-Dichloroethene	<0.001	0.001	mg/l	1/26/94	8260
1,2-Dichloropropane	<0.001	0.001	mg/l	1/26/94	8260
cis-1,3-Dichloropropene	<0.001	0.001	mg/l	1/26/94	8260
trans-1,3-Dichloropropene	<0.001	0.001	mg/l	1/26/94	8260
Diethyl ether	<0.001	0.001	mg/l	1/26/94	8260
Ethylbenzene	<0.001	0.001	mg/l	1/26/94	8260
Ethylmethacrylate	<0.001	0.001	mg/l	1/26/94	8260
2-Hexanone	<0.010	0.010	mg/l	1/26/94	8260
Iodomethane	<0.001	0.001	mg/l	1/26/94	8260
Methacrylonitrile	<0.001	0.001	mg/l	1/26/94	8260
Methylene chloride	<0.001	0.001	mg/l	1/26/94	8260
Methylmethacrylate	<0.001	0.001	mg/l	1/26/94	8260
4-Methyl-2-pentanone (MIBK)	<0.010	0.010	mg/l	1/26/94	8260
Propionitrile	<0.002	0.002	mg/l	1/26/94	8260
Styrene	<0.001	0.001	mg/l	1/26/94	8260
1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/l	1/26/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/27/94
Chemron Sample #: 33589
Sample Matrix: Water
Client's Job #: 1315-109
COC #: 1679
Date Sampled: 1/20/94

Sample Description:
1315-109 / Garland / Garland, Texas
TB-3

Date & Time Received:
1/21/94 09:15

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/l	1/26/94	8260
Tetrachloroethene	<0.001	0.001	mg/l	1/26/94	8260
Toluene	<0.001	0.001	mg/l	1/26/94	8260
1,1,1-Trichloroethane	<0.001	0.001	mg/l	1/26/94	8260
1,1,2-Trichloroethane	<0.001	0.001	mg/l	1/26/94	8260
Trichloroethene	<0.001	0.001	mg/l	1/26/94	8260
Trichlorofluoromethane	<0.001	0.001	mg/l	1/26/94	8260
1,2,3-Trichloropropane	<0.001	0.001	mg/l	1/26/94	8260
m,p-Xylene	<0.001	0.001	mg/l	1/26/94	8260
o-Xylene	<0.001	0.001	mg/l	1/26/94	8260
Vinyl Chloride	<0.001	0.001	mg/l	1/26/94	8260
Carbon disulfide	<0.001	0.001	mg/l	1/26/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33557
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 1-2

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.39	0.39	mg/kg	1/21/94	8260
Acrolein	<0.018	0.018	mg/kg	1/21/94	8260
Acrylonitrile	<0.014	0.014	mg/kg	1/21/94	8260
Allyl chloride	<0.011	0.011	mg/kg	1/21/94	8260
Benzene	<0.011	0.011	mg/kg	1/21/94	8260
Bromodichloromethane	<0.011	0.011	mg/kg	1/21/94	8260
Bromoform	<0.007	0.007	mg/kg	1/21/94	8260
Bromomethane	<0.021	0.021	mg/kg	1/21/94	8260
2-Butanone (MEK)	<0.035	0.035	mg/kg	1/21/94	8260
Carbon tetrachloride	<0.011	0.011	mg/kg	1/21/94	8260
Chlorobenzene	<0.014	0.014	mg/kg	1/21/94	8260
Chloroethane	<0.007	0.007	mg/kg	1/21/94	8260
2-Chloroethyl vinyl ether	<0.035	0.035	mg/kg	1/21/94	8260
Chloroform	<0.011	0.011	mg/kg	1/21/94	8260
Chloromethane	<0.018	0.018	mg/kg	1/21/94	8260
Dibromochloromethane	<0.011	0.011	mg/kg	1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.021	0.021	mg/kg	1/21/94	8260
1,2-Dibromoethane	<0.011	0.011	mg/kg	1/21/94	8260
Dibromomethane	<0.007	0.007	mg/kg	1/21/94	8260
1,2-Dichlorobenzene	<0.018	0.018	mg/kg	1/21/94	8260
1,3-Dichlorobenzene	<0.018	0.018	mg/kg	1/21/94	8260
1,4-Dichlorobenzene	<0.021	0.021	mg/kg	1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.014	0.014	mg/kg	1/21/94	8260
Dichlorodifluoromethane	<0.011	0.011	mg/kg	1/21/94	8260
1,1-Dichloroethane	<0.011	0.011	mg/kg	1/21/94	8260
1,2-Dichloroethane	<0.011	0.011	mg/kg	1/21/94	8260
1,1-Dichloroethene	<0.018	0.018	mg/kg	1/21/94	8260
cis-1,2-Dichloroethene	<0.014	0.014	mg/kg	1/21/94	8260
trans-1,2-Dichloroethene	<0.014	0.014	mg/kg	1/21/94	8260
1,2-Dichloropropane	<0.007	0.007	mg/kg	1/21/94	8260
cis-1,3-Dichloropropene	<0.007	0.007	mg/kg	1/21/94	8260
trans-1,3-Dichloropropene	<0.011	0.011	mg/kg	1/21/94	8260
Diethyl ether	<0.018	0.018	mg/kg	1/21/94	8260
Ethylbenzene	<0.018	0.018	mg/kg	1/21/94	8260
Ethylmethacrylate	<0.018	0.018	mg/kg	1/21/94	8260
2-Hexanone	<0.021	0.021	mg/kg	1/21/94	8260
Iodomethane	<0.018	0.018	mg/kg	1/21/94	8260
Methacrylonitrile	<0.018	0.018	mg/kg	1/21/94	8260
Methylene chloride	<0.014	0.014	mg/kg	1/21/94	8260
Methylmethacrylate	<0.014	0.014	mg/kg	1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.035	0.035	mg/kg	1/21/94	8260
Propionitrile	<0.035	0.035	mg/kg	1/21/94	8260
Styrene	<0.014	0.014	mg/kg	1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.018	0.018	mg/kg	1/21/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33557
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 1-2

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.011	0.011	mg/kg	1/21/94	8260
Tetrachloroethene	<0.018	0.018	mg/kg	1/21/94	8260
Toluene	<0.083	0.083	mg/kg	1/21/94	8260
1,1,1-Trichloroethane	<0.018	0.018	mg/kg	1/21/94	8260
1,1,2-Trichloroethane	<0.011	0.011	mg/kg	1/21/94	8260
Trichloroethene	<0.007	0.007	mg/kg	1/21/94	8260
Trichlorofluoromethane	<0.018	0.018	mg/kg	1/21/94	8260
1,2,3-Trichloropropane	<0.011	0.011	mg/kg	1/21/94	8260
m,p-Xylene	<0.018	0.018	mg/kg	1/21/94	8260
o-Xylene	<0.014	0.014	mg/kg	1/21/94	8260
Vinyl Chloride	<0.007	0.007	mg/kg	1/21/94	8260
Carbon disulfide	<0.018	0.018	mg/kg	1/21/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33558
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 4-5

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.32	0.32	mg/kg	1/21/94	8260
Acrolein	<0.015	0.015	mg/kg	1/21/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/21/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/21/94	8260
Benzene	<0.009	0.009	mg/kg	1/21/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/21/94	8260
Bromoform	<0.006	0.006	mg/kg	1/21/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/21/94	8260
2-Butanone (MEK)	<0.029	0.029	mg/kg	1/21/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/21/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/21/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/21/94	8260
2-Chloroethyl vinyl ether	<0.029	0.029	mg/kg	1/21/94	8260
Chloroform	<0.009	0.009	mg/kg	1/21/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/21/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/21/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/21/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/21/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/21/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/21/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/21/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/21/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/21/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/21/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/21/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/21/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/21/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/21/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/21/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/21/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/21/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/21/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/21/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/21/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/21/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.029	0.029	mg/kg	1/21/94	8260
Propionitrile	<0.029	0.029	mg/kg	1/21/94	8260
Styrene	<0.012	0.012	mg/kg	1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/21/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33558
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 4-5

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/21/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/21/94	8260
Toluene	<0.068	0.068	mg/kg	1/21/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/21/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/21/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/21/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/21/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/21/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/21/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/21/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/21/94	8260

Approved by: R. Eichmann

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33559
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.34	0.34	mg/kg	1/21/94	8260
Acrolein	<0.016	0.016	mg/kg	1/21/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/21/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/21/94	8260
Benzene	<0.009	0.009	mg/kg	1/21/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/21/94	8260
Bromoform	<0.006	0.006	mg/kg	1/21/94	8260
Bromomethane	<0.019	0.019	mg/kg	1/21/94	8260
2-Butanone (MEK)	<0.031	0.031	mg/kg	1/21/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/21/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/21/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/21/94	8260
2-Chloroethyl vinyl ether	<0.031	0.031	mg/kg	1/21/94	8260
Chloroform	<0.009	0.009	mg/kg	1/21/94	8260
Chloromethane	<0.016	0.016	mg/kg	1/21/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/21/94	8260
1,2-Dibromo-3-chloropropane	<0.019	0.019	mg/kg	1/21/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/21/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/21/94	8260
1,2-Dichlorobenzene	<0.016	0.016	mg/kg	1/21/94	8260
1,3-Dichlorobenzene	<0.016	0.016	mg/kg	1/21/94	8260
1,4-Dichlorobenzene	<0.019	0.019	mg/kg	1/21/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/21/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/21/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
1,1-Dichloroethene	<0.016	0.016	mg/kg	1/21/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/21/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/21/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/21/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/21/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/21/94	8260
Diethyl ether	<0.016	0.016	mg/kg	1/21/94	8260
Ethylbenzene	<0.016	0.016	mg/kg	1/21/94	8260
Ethylmethacrylate	<0.016	0.016	mg/kg	1/21/94	8260
2-Hexanone	<0.019	0.019	mg/kg	1/21/94	8260
Iodomethane	<0.016	0.016	mg/kg	1/21/94	8260
Methacrylonitrile	<0.016	0.016	mg/kg	1/21/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/21/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/21/94	8260
4-Methyl-2-pentanone (MIBK)	<0.031	0.031	mg/kg	1/21/94	8260
Propionitrile	<0.031	0.031	mg/kg	1/21/94	8260
Styrene	<0.012	0.012	mg/kg	1/21/94	8260
1,1,1,2-Tetrachloroethane	<0.016	0.016	mg/kg	1/21/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/22/94
Chemron Sample #: 33559
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/21/94	8260
Tetrachloroethene	<0.016	0.016	mg/kg	1/21/94	8260
Toluene	<0.068	0.068	mg/kg	1/21/94	8260
1,1,1-Trichloroethane	<0.016	0.016	mg/kg	1/21/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/21/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/21/94	8260
Trichlorofluoromethane	<0.016	0.016	mg/kg	1/21/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/21/94	8260
m,p-Xylene	<0.016	0.016	mg/kg	1/21/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/21/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/21/94	8260
Carbon disulfide	<0.016	0.016	mg/kg	1/21/94	8260

Approved by: R. Ardman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33560
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 1-2

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.35	0.35	mg/kg	1/22/94	8260
Acrolein	<0.016	0.016	mg/kg	1/22/94	8260
Acrylonitrile	<0.013	0.013	mg/kg	1/22/94	8260
Allyl chloride	<0.010	0.010	mg/kg	1/22/94	8260
Benzene	<0.010	0.010	mg/kg	1/22/94	8260
Bromodichloromethane	<0.010	0.010	mg/kg	1/22/94	8260
Bromoform	<0.006	0.006	mg/kg	1/22/94	8260
Bromomethane	<0.019	0.019	mg/kg	1/22/94	8260
2-Butanone (MEK)	<0.032	0.032	mg/kg	1/22/94	8260
Carbon tetrachloride	<0.010	0.010	mg/kg	1/22/94	8260
Chlorobenzene	<0.013	0.013	mg/kg	1/22/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/22/94	8260
2-Chloroethyl vinyl ether	<0.032	0.032	mg/kg	1/22/94	8260
Chloroform	<0.010	0.010	mg/kg	1/22/94	8260
Chloromethane	<0.016	0.016	mg/kg	1/22/94	8260
Dibromochloromethane	<0.010	0.010	mg/kg	1/22/94	8260
1,2-Dibromo-3-chloropropane	<0.019	0.019	mg/kg	1/22/94	8260
1,2-Dibromoethane	<0.010	0.010	mg/kg	1/22/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/22/94	8260
1,2-Dichlorobenzene	<0.016	0.016	mg/kg	1/22/94	8260
1,3-Dichlorobenzene	<0.016	0.016	mg/kg	1/22/94	8260
1,4-Dichlorobenzene	<0.019	0.019	mg/kg	1/22/94	8260
trans-1,4-Dichloro-2-butene	<0.013	0.013	mg/kg	1/22/94	8260
Dichlorodifluoromethane	<0.010	0.010	mg/kg	1/22/94	8260
1,1-Dichloroethane	<0.010	0.010	mg/kg	1/22/94	8260
1,2-Dichloroethane	<0.010	0.010	mg/kg	1/22/94	8260
1,1-Dichloroethene	<0.016	0.016	mg/kg	1/22/94	8260
cis-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/22/94	8260
trans-1,2-Dichloroethene	<0.013	0.013	mg/kg	1/22/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/22/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/22/94	8260
trans-1,3-Dichloropropene	<0.010	0.010	mg/kg	1/22/94	8260
Diethyl ether	<0.016	0.016	mg/kg	1/22/94	8260
Ethylbenzene	<0.016	0.016	mg/kg	1/22/94	8260
Ethylmethacrylate	<0.016	0.016	mg/kg	1/22/94	8260
2-Hexanone	<0.019	0.019	mg/kg	1/22/94	8260
Iodomethane	<0.016	0.016	mg/kg	1/22/94	8260
Methacrylonitrile	<0.016	0.016	mg/kg	1/22/94	8260
Methylene chloride	<0.013	0.013	mg/kg	1/22/94	8260
Methylmethacrylate	<0.013	0.013	mg/kg	1/22/94	8260
4-Methyl-2-pentanone (MIBK)	<0.032	0.032	mg/kg	1/22/94	8260
Propionitrile	<0.032	0.032	mg/kg	1/22/94	8260
Styrene	<0.013	0.013	mg/kg	1/22/94	8260
1,1,1,2-Tetrachloroethane	<0.016	0.016	mg/kg	1/22/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33560
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 1-2

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.010	0.010	mg/kg	1/22/94	8260
Tetrachloroethene	<0.016	0.016	mg/kg	1/22/94	8260
Toluene	<0.075	0.075	mg/kg	1/22/94	8260
1,1,1-Trichloroethane	<0.016	0.016	mg/kg	1/22/94	8260
1,1,2-Trichloroethane	<0.010	0.010	mg/kg	1/22/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/22/94	8260
Trichlorofluoromethane	<0.016	0.016	mg/kg	1/22/94	8260
1,2,3-Trichloropropane	<0.010	0.010	mg/kg	1/22/94	8260
m,p-Xylene	<0.016	0.016	mg/kg	1/22/94	8260
o-Xylene	<0.013	0.013	mg/kg	1/22/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/22/94	8260
Carbon disulfide	<0.016	0.016	mg/kg	1/22/94	8260

Approved by: R. Erdman

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33560PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 1-2
Spiked with 0.161 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.35	0.35	mg/kg		1/22/94	8260
Acrolein	<0.016	0.016	mg/kg		1/22/94	8260
Acrylonitrile	<0.013	0.013	mg/kg		1/22/94	8260
Allyl chloride	<0.010	0.010	mg/kg		1/22/94	8260
Benzene	0.16	0.010	mg/kg	99.4%	1/22/94	8260
Bromodichloromethane	<0.010	0.010	mg/kg		1/22/94	8260
Bromoform	<0.006	0.006	mg/kg		1/22/94	8260
Bromomethane	<0.019	0.019	mg/kg		1/22/94	8260
2-Butanone (MEK)	<0.032	0.032	mg/kg		1/22/94	8260
Carbon tetrachloride	<0.010	0.010	mg/kg		1/22/94	8260
Chlorobenzene	0.17	0.013	mg/kg	105.6%	1/22/94	8260
Chloroethane	<0.006	0.006	mg/kg		1/22/94	8260
2-Chloroethyl vinyl ether	<0.032	0.032	mg/kg		1/22/94	8260
Chloroform	<0.010	0.010	mg/kg		1/22/94	8260
Chloromethane	<0.016	0.016	mg/kg		1/22/94	8260
Dibromochloromethane	<0.010	0.010	mg/kg		1/22/94	8260
1,2-Dibromo-3-chloropropane	<0.019	0.019	mg/kg		1/22/94	8260
1,2-Dibromoethane	<0.010	0.010	mg/kg		1/22/94	8260
Dibromomethane	<0.006	0.006	mg/kg		1/22/94	8260
1,2-Dichlorobenzene	<0.016	0.016	mg/kg		1/22/94	8260
1,3-Dichlorobenzene	<0.016	0.016	mg/kg		1/22/94	8260
1,4-Dichlorobenzene	<0.019	0.019	mg/kg		1/22/94	8260
trans-1,4-Dichloro-2-butene	<0.013	0.013	mg/kg		1/22/94	8260
Dichlorodifluoromethane	<0.010	0.010	mg/kg		1/22/94	8260
1,1-Dichloroethane	<0.010	0.010	mg/kg		1/22/94	8260
1,2-Dichloroethane	<0.010	0.010	mg/kg		1/22/94	8260
1,1-Dichloroethene	0.14	0.016	mg/kg	87.0%	1/22/94	8260
cis-1,2-Dichloroethene	<0.013	0.013	mg/kg		1/22/94	8260
trans-1,2-Dichloroethene	<0.013	0.013	mg/kg		1/22/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg		1/22/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg		1/22/94	8260
trans-1,3-Dichloropropene	<0.010	0.010	mg/kg		1/22/94	8260
Diethyl ether	<0.016	0.016	mg/kg		1/22/94	8260
Ethylbenzene	<0.016	0.016	mg/kg		1/22/94	8260
Ethylmethacrylate	<0.016	0.016	mg/kg		1/22/94	8260
2-Hexanone	<0.019	0.019	mg/kg		1/22/94	8260
Iodomethane	<0.016	0.016	mg/kg		1/22/94	8260
Methacrylonitrile	<0.016	0.016	mg/kg		1/22/94	8260
Methylene chloride	<0.013	0.013	mg/kg		1/22/94	8260
Methylmethacrylate	<0.013	0.013	mg/kg		1/22/94	8260
4-Methyl-2-pentanone (MIBK)	<0.032	0.032	mg/kg		1/22/94	8260
Propionitrile	<0.032	0.032	mg/kg		1/22/94	8260
Styrene	<0.013	0.013	mg/kg		1/22/94	8260
1,1,1,2-Tetrachloroethane	<0.016	0.016	mg/kg		1/22/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33560PK
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 1-2
Spiked with 0.161 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.010	0.010	mg/kg		1/22/94	8260
Tetrachloroethene	<0.016	0.016	mg/kg		1/22/94	8260
Toluene	0.16	0.050	mg/kg	99.4%	1/22/94	8260
1,1,1-Trichloroethane	<0.016	0.016	mg/kg		1/22/94	8260
1,1,2-Trichloroethane	<0.010	0.010	mg/kg		1/22/94	8260
Trichloroethene	0.16	0.006	mg/kg	99.4%	1/22/94	8260
Trichlorofluoromethane	<0.016	0.016	mg/kg		1/22/94	8260
1,2,3-Trichloropropane	<0.010	0.010	mg/kg		1/22/94	8260
m,p-Xylene	<0.016	0.016	mg/kg		1/22/94	8260
o-Xylene	<0.013	0.013	mg/kg		1/22/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg		1/22/94	8260
Carbon disulfide	<0.016	0.016	mg/kg		1/22/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33560PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 1-2
Spiked with 0.148 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	%Rec	Date Analyzed	Method
Acetone	<0.33	0.33	mg/kg		1/22/94	8260
Acrolein	<0.015	0.015	mg/kg		1/22/94	8260
Acrylonitrile	<0.012	0.012	mg/kg		1/22/94	8260
Allyl chloride	<0.009	0.009	mg/kg		1/22/94	8260
Benzene	0.15	0.009	mg/kg	101.4%	1/22/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg		1/22/94	8260
Bromoform	<0.006	0.006	mg/kg		1/22/94	8260
Bromomethane	<0.018	0.018	mg/kg		1/22/94	8260
2-Butanone (MEK)	<0.030	0.030	mg/kg		1/22/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg		1/22/94	8260
Chlorobenzene	0.15	0.012	mg/kg	101.4%	1/22/94	8260
Chloroethane	<0.006	0.006	mg/kg		1/22/94	8260
2-Chloroethyl vinyl ether	<0.030	0.030	mg/kg		1/22/94	8260
Chloroform	<0.009	0.009	mg/kg		1/22/94	8260
Chloromethane	<0.015	0.015	mg/kg		1/22/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg		1/22/94	8260
1,2-Dibromo-3-chloropropane	<0.018	0.018	mg/kg		1/22/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg		1/22/94	8260
Dibromomethane	<0.006	0.006	mg/kg		1/22/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg		1/22/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg		1/22/94	8260
1,4-Dichlorobenzene	<0.018	0.018	mg/kg		1/22/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg		1/22/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg		1/22/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg		1/22/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg		1/22/94	8260
1,1-Dichloroethene	0.13	0.015	mg/kg	87.8%	1/22/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg		1/22/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg		1/22/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg		1/22/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg		1/22/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg		1/22/94	8260
Diethyl ether	<0.015	0.015	mg/kg		1/22/94	8260
Ethylbenzene	<0.015	0.015	mg/kg		1/22/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg		1/22/94	8260
2-Hexanone	<0.018	0.018	mg/kg		1/22/94	8260
Iodomethane	<0.015	0.015	mg/kg		1/22/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg		1/22/94	8260
Methylene chloride	<0.012	0.012	mg/kg		1/22/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg		1/22/94	8260
4-Methyl-2-pentanone (MIBK)	<0.030	0.030	mg/kg		1/22/94	8260
Propionitrile	<0.030	0.030	mg/kg		1/22/94	8260
Styrene	<0.012	0.012	mg/kg		1/22/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg		1/22/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33560PKD
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 1-2
Spiked with 0.148 mg/kg Volatile Matrix Spike

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units		Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg		1/22/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg		1/22/94	8260
Toluene	0.15	0.045	mg/kg	101.4%	1/22/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg		1/22/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg		1/22/94	8260
Trichloroethene	0.15	0.006	mg/kg	101.4%	1/22/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg		1/22/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg		1/22/94	8260
m,p-Xylene	<0.015	0.015	mg/kg		1/22/94	8260
o-Xylene	<0.012	0.012	mg/kg		1/22/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg		1/22/94	8260
Carbon disulfide	<0.015	0.015	mg/kg		1/22/94	8260

Approved by: _____

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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File Name	Date	Surr #1 %R	Surr #2 %R	Surr #3 %R	Istd 1	Istd 2	Istd 3
01BFB22.D	1/22/94			113.78	1.30E+06	5.32E+06	1.58E+06
01VSTD22.D	1/22/94	88.94	98.18	98.14	1.01E+06	4.45E+06	1.30E+06
01VCHK22.D	1/22/94	88.26	95.49	97.24	1.05E+06	4.58E+06	1.33E+06
01BLK22.D	1/22/94	86.68	96.96	97.41	1.07E+06	4.56E+06	1.36E+06
33560S.D	1/22/94	85.68	94.64	96.04	1.04E+06	4.55E+06	1.34E+06
33560PK.D	1/22/94	90.16	98.42	96.73	1.01E+06	4.49E+06	1.27E+06
33560PKD.D	1/22/94	89.73	97.70	94.06	9.88E+05	4.36E+06	1.29E+06
33561S.D	1/22/94	88.49	96.35	95.16	1.01E+06	4.38E+06	1.31E+06
33562S.D	1/23/94	92.30	96.68	98.86	8.69E+05	4.17E+06	1.17E+06
33563S.D	1/23/94	85.82	99.19	97.53	9.18E+05	4.24E+06	1.21E+06
33564S.D	1/23/94	86.76	101.73	105.19	9.14E+05	4.10E+06	1.16E+06
33565S.D	1/23/94	90.73	99.38	99.98	7.07E+05	3.13E+06	8.65E+05
Mean		88.51	97.70	99.18		Area Limits	
Std. Dev.		2.13	1.99	5.38	L 5.07E+05	2.23E+06	6.50E+05
% Std. Dev.		2.41	2.04	5.43	H 2.03E+06	8.90E+06	2.60E+06

		Results (ppm)	TGT (ppm)	%Rec
33560	Benzene	0.16	0.161	99.4%
Soil Matrix	Chlorobenzene	0.17	0.161	105.6%
Spike	1,1-Dichloroethene	0.14	0.161	87.0%
	Toluene	0.16	0.161	99.4%
	Trichloroethene	0.16	0.161	99.4%
33560	Benzene	0.15	0.148	101.4%
Soil Matrix	Chlorobenzene	0.15	0.148	101.4%
Spike Dup.	1,1-Dichloroethene	0.13	0.148	87.8%
	Toluene	0.15	0.148	101.4%
	Trichloroethene	0.15	0.148	101.4%

		(ppm)	Rel. % Diff.
Dup %P	Benzene	0.16	
		0.15	6.5%
	Chlorobenzene	0.17	
		0.15	12.5%
	1,1-Dichloroethene	0.14	
		0.13	7.4%
	Toluene	0.16	
		0.15	6.5%
	Trichloroethene	0.16	
		0.15	6.5%

Surrogate Recovery Limits	Water	Soil
1,2-Dichloroethane, d4	76-110	70-121
Toluene, d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33561
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 4-5

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.31	0.31	mg/kg	1/22/94	8260
Acrolein	<0.014	0.014	mg/kg	1/22/94	8260
Acrylonitrile	<0.011	0.011	mg/kg	1/22/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/22/94	8260
Benzene	<0.008	0.008	mg/kg	1/22/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/22/94	8260
Bromoform	<0.006	0.006	mg/kg	1/22/94	8260
Bromomethane	<0.017	0.017	mg/kg	1/22/94	8260
2-Butanone (MEK)	<0.028	0.028	mg/kg	1/22/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/22/94	8260
Chlorobenzene	<0.011	0.011	mg/kg	1/22/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/22/94	8260
2-Chloroethyl vinyl ether	<0.028	0.028	mg/kg	1/22/94	8260
Chloroform	<0.008	0.008	mg/kg	1/22/94	8260
Chloromethane	<0.014	0.014	mg/kg	1/22/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/22/94	8260
1,2-Dibromo-3-chloropropane	<0.017	0.017	mg/kg	1/22/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/22/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/22/94	8260
1,2-Dichlorobenzene	<0.014	0.014	mg/kg	1/22/94	8260
1,3-Dichlorobenzene	<0.014	0.014	mg/kg	1/22/94	8260
1,4-Dichlorobenzene	<0.017	0.017	mg/kg	1/22/94	8260
trans-1,4-Dichloro-2-butene	<0.011	0.011	mg/kg	1/22/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/22/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/22/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/22/94	8260
1,1-Dichloroethene	<0.014	0.014	mg/kg	1/22/94	8260
cis-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/22/94	8260
trans-1,2-Dichloroethene	<0.011	0.011	mg/kg	1/22/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/22/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/22/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/22/94	8260
Diethyl ether	<0.014	0.014	mg/kg	1/22/94	8260
Ethylbenzene	<0.014	0.014	mg/kg	1/22/94	8260
Ethylmethacrylate	<0.014	0.014	mg/kg	1/22/94	8260
2-Hexanone	<0.017	0.017	mg/kg	1/22/94	8260
Iodomethane	<0.014	0.014	mg/kg	1/22/94	8260
Methacrylonitrile	<0.014	0.014	mg/kg	1/22/94	8260
Methylene chloride	<0.011	0.011	mg/kg	1/22/94	8260
Methylmethacrylate	<0.011	0.011	mg/kg	1/22/94	8260
4-Methyl-2-pentanone (MIBK)	<0.028	0.028	mg/kg	1/22/94	8260
Propionitrile	<0.028	0.028	mg/kg	1/22/94	8260
Styrene	<0.011	0.011	mg/kg	1/22/94	8260
1,1,1,2-Tetrachloroethane	<0.014	0.014	mg/kg	1/22/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33561
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 4-5

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/22/94	8260
Tetrachloroethene	<0.014	0.014	mg/kg	1/22/94	8260
Toluene	<0.060	0.060	mg/kg	1/22/94	8260
1,1,1-Trichloroethane	<0.014	0.014	mg/kg	1/22/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/22/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/22/94	8260
Trichlorofluoromethane	<0.014	0.014	mg/kg	1/22/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/22/94	8260
m,p-Xylene	<0.014	0.014	mg/kg	1/22/94	8260
o-Xylene	<0.011	0.011	mg/kg	1/22/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/22/94	8260
Carbon disulfide	<0.014	0.014	mg/kg	1/22/94	8260

Approved by: R. Graham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33562
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.30	0.30	mg/kg	1/23/94	8260
Acrolein	<0.015	0.015	mg/kg	1/23/94	8260
Acrylonitrile	<0.012	0.012	mg/kg	1/23/94	8260
Allyl chloride	<0.009	0.009	mg/kg	1/23/94	8260
Benzene	<0.009	0.009	mg/kg	1/23/94	8260
Bromodichloromethane	<0.009	0.009	mg/kg	1/23/94	8260
Bromoform	<0.006	0.006	mg/kg	1/23/94	8260
Bromomethane	<0.018	0.018	mg/kg	1/23/94	8260
2-Butanone (MEK)	<0.030	0.030	mg/kg	1/23/94	8260
Carbon tetrachloride	<0.009	0.009	mg/kg	1/23/94	8260
Chlorobenzene	<0.012	0.012	mg/kg	1/23/94	8260
Chloroethane	<0.006	0.006	mg/kg	1/23/94	8260
2-Chloroethyl vinyl ether	<0.030	0.030	mg/kg	1/23/94	8260
Chloroform	<0.009	0.009	mg/kg	1/23/94	8260
Chloromethane	<0.015	0.015	mg/kg	1/23/94	8260
Dibromochloromethane	<0.009	0.009	mg/kg	1/23/94	8260
1,2-Dibromo-3-chloropropane	<0.018	0.018	mg/kg	1/23/94	8260
1,2-Dibromoethane	<0.009	0.009	mg/kg	1/23/94	8260
Dibromomethane	<0.006	0.006	mg/kg	1/23/94	8260
1,2-Dichlorobenzene	<0.015	0.015	mg/kg	1/23/94	8260
1,3-Dichlorobenzene	<0.015	0.015	mg/kg	1/23/94	8260
1,4-Dichlorobenzene	<0.018	0.018	mg/kg	1/23/94	8260
trans-1,4-Dichloro-2-butene	<0.012	0.012	mg/kg	1/23/94	8260
Dichlorodifluoromethane	<0.009	0.009	mg/kg	1/23/94	8260
1,1-Dichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
1,2-Dichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
1,1-Dichloroethene	<0.015	0.015	mg/kg	1/23/94	8260
cis-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/23/94	8260
trans-1,2-Dichloroethene	<0.012	0.012	mg/kg	1/23/94	8260
1,2-Dichloropropane	<0.006	0.006	mg/kg	1/23/94	8260
cis-1,3-Dichloropropene	<0.006	0.006	mg/kg	1/23/94	8260
trans-1,3-Dichloropropene	<0.009	0.009	mg/kg	1/23/94	8260
Diethyl ether	<0.015	0.015	mg/kg	1/23/94	8260
Ethylbenzene	<0.015	0.015	mg/kg	1/23/94	8260
Ethylmethacrylate	<0.015	0.015	mg/kg	1/23/94	8260
2-Hexanone	<0.018	0.018	mg/kg	1/23/94	8260
Iodomethane	<0.015	0.015	mg/kg	1/23/94	8260
Methacrylonitrile	<0.015	0.015	mg/kg	1/23/94	8260
Methylene chloride	<0.012	0.012	mg/kg	1/23/94	8260
Methylmethacrylate	<0.012	0.012	mg/kg	1/23/94	8260
4-Methyl-2-pentanone (MIBK)	<0.030	0.030	mg/kg	1/23/94	8260
Propionitrile	<0.030	0.030	mg/kg	1/23/94	8260
Styrene	<0.012	0.012	mg/kg	1/23/94	8260
1,1,1,2-Tetrachloroethane	<0.015	0.015	mg/kg	1/23/94	8260

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/25/94
Chemron Sample #: 33562
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/19/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 7-8

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.009	0.009	mg/kg	1/23/94	8260
Tetrachloroethene	<0.015	0.015	mg/kg	1/23/94	8260
Toluene	<0.068	0.068	mg/kg	1/23/94	8260
1,1,1-Trichloroethane	<0.015	0.015	mg/kg	1/23/94	8260
1,1,2-Trichloroethane	<0.009	0.009	mg/kg	1/23/94	8260
Trichloroethene	<0.006	0.006	mg/kg	1/23/94	8260
Trichlorofluoromethane	<0.015	0.015	mg/kg	1/23/94	8260
1,2,3-Trichloropropane	<0.009	0.009	mg/kg	1/23/94	8260
m,p-Xylene	<0.015	0.015	mg/kg	1/23/94	8260
o-Xylene	<0.012	0.012	mg/kg	1/23/94	8260
Vinyl Chloride	<0.006	0.006	mg/kg	1/23/94	8260
Carbon disulfide	<0.015	0.015	mg/kg	1/23/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33572
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-001BH 4.5-5.5

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
Acetone	<0.29	0.29	mg/kg	1/24/94	8260
Acrolein	<0.013	0.013	mg/kg	1/24/94	8260
Acrylonitrile	<0.010	0.010	mg/kg	1/24/94	8260
Allyl chloride	<0.008	0.008	mg/kg	1/24/94	8260
Benzene	<0.008	0.008	mg/kg	1/24/94	8260
Bromodichloromethane	<0.008	0.008	mg/kg	1/24/94	8260
Bromoform	<0.005	0.005	mg/kg	1/24/94	8260
Bromomethane	<0.016	0.016	mg/kg	1/24/94	8260
2-Butanone (MEK)	<0.026	0.026	mg/kg	1/24/94	8260
Carbon tetrachloride	<0.008	0.008	mg/kg	1/24/94	8260
Chlorobenzene	<0.010	0.010	mg/kg	1/24/94	8260
Chloroethane	<0.005	0.005	mg/kg	1/24/94	8260
2-Chloroethyl vinyl ether	<0.026	0.026	mg/kg	1/24/94	8260
Chloroform	<0.008	0.008	mg/kg	1/24/94	8260
Chloromethane	<0.013	0.013	mg/kg	1/24/94	8260
Dibromochloromethane	<0.008	0.008	mg/kg	1/24/94	8260
1,2-Dibromo-3-chloropropane	<0.016	0.016	mg/kg	1/24/94	8260
1,2-Dibromoethane	<0.008	0.008	mg/kg	1/24/94	8260
Dibromomethane	<0.005	0.005	mg/kg	1/24/94	8260
1,2-Dichlorobenzene	<0.013	0.013	mg/kg	1/24/94	8260
1,3-Dichlorobenzene	<0.013	0.013	mg/kg	1/24/94	8260
1,4-Dichlorobenzene	<0.016	0.016	mg/kg	1/24/94	8260
trans-1,4-Dichloro-2-butene	<0.010	0.010	mg/kg	1/24/94	8260
Dichlorodifluoromethane	<0.008	0.008	mg/kg	1/24/94	8260
1,1-Dichloroethane	<0.008	0.008	mg/kg	1/24/94	8260
1,2-Dichloroethane	<0.008	0.008	mg/kg	1/24/94	8260
1,1-Dichloroethene	<0.013	0.013	mg/kg	1/24/94	8260
cis-1,2-Dichloroethene	<0.010	0.010	mg/kg	1/24/94	8260
trans-1,2-Dichloroethene	<0.010	0.010	mg/kg	1/24/94	8260
1,2-Dichloropropane	<0.005	0.005	mg/kg	1/24/94	8260
cis-1,3-Dichloropropene	<0.005	0.005	mg/kg	1/24/94	8260
trans-1,3-Dichloropropene	<0.008	0.008	mg/kg	1/24/94	8260
Diethyl ether	<0.013	0.013	mg/kg	1/24/94	8260
Ethylbenzene	<0.013	0.013	mg/kg	1/24/94	8260
Ethylmethacrylate	<0.013	0.013	mg/kg	1/24/94	8260
2-Hexanone	<0.016	0.016	mg/kg	1/24/94	8260
Iodomethane	<0.013	0.013	mg/kg	1/24/94	8260
Methacrylonitrile	<0.013	0.013	mg/kg	1/24/94	8260
Methylene chloride	<0.010	0.010	mg/kg	1/24/94	8260
Methylmethacrylate	<0.010	0.010	mg/kg	1/24/94	8260
4-Methyl-2-pentanone (MIBK)	<0.026	0.026	mg/kg	1/24/94	8260
Propionitrile	<0.026	0.026	mg/kg	1/24/94	8260
Styrene	<0.010	0.010	mg/kg	1/24/94	8260
1,1,1,2-Tetrachloroethane	<0.013	0.013	mg/kg	1/24/94	8260

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Client:
Optech
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Report Date: 1/26/94
Chemron Sample #: 33572
Sample Matrix: Soil
Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 1/18/94

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-001BH 4.5-5.5

Date & Time Received:
1/20/94 10:00

CHEMICAL ANALYSIS REPORT

Parameter	Results	Quant. Limit	Units	Date Analyzed	Method
1,1,2,2-Tetrachloroethane	<0.008	0.008	mg/kg	1/24/94	8260
Tetrachloroethene	<0.013	0.013	mg/kg	1/24/94	8260
Toluene	<0.060	0.060	mg/kg	1/24/94	8260
1,1,1-Trichloroethane	<0.013	0.013	mg/kg	1/24/94	8260
1,1,2-Trichloroethane	<0.008	0.008	mg/kg	1/24/94	8260
Trichloroethene	<0.005	0.005	mg/kg	1/24/94	8260
Trichlorofluoromethane	<0.013	0.013	mg/kg	1/24/94	8260
1,2,3-Trichloropropane	<0.008	0.008	mg/kg	1/24/94	8260
m,p-Xylene	<0.013	0.013	mg/kg	1/24/94	8260
o-Xylene	<0.010	0.010	mg/kg	1/24/94	8260
Vinyl Chloride	<0.005	0.005	mg/kg	1/24/94	8260
Carbon disulfide	<0.013	0.013	mg/kg	1/24/94	8260

Approved by: R. Oldham

All test method numbers are references to U.S. Environmental Protection Agency methods unless otherwise noted. If an analytical value is shown with the less than sign ("<"), this indicates that the parameter was not detected. The corresponding number then represents the nominal practical quantitation limit for the analytical procedure employed.

Summary of Analytical Results for Volatile Organic Compounds Detected in QA/QC Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	Equipment Blank-1	Equipment Blank-2	Field Blank-1	Field Blank-2	Trip Blank-1	Trip Blank-2	Trip Blank-3
1,2-Dichloropropane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
cis-1,3-Dichloropropene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
trans-1,3-Dichloropropene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Diethyl ether	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Ethylbenzene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Ethylmethacrylate	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
2-Hexanone	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
Iodomethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Methacrylonitrile	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Methylene chloride	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Methylmethacrylate	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
4-Methyl-2-pentanone (MIBK)	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
Propionitrile	0.002U	0.002U	0.002U	0.002U	0.002U	0.002U	0.002U
Styrene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,1,1,2-Tetrachloroethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,1,2,2-Tetrachloroethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Tetrachloroethene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Toluene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,1,1-Trichloroethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,1,2-Trichloroethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Trichloroethene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Trichlorofluoromethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,2,3-Trichloropropane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
m,p-Xylene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
o-Xylene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Vinyl Chloride	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Carbon disulfide	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U

U-Compound analyzed for but not detected. Number indicates the DL.

QA/QC-Quality Assurance/Quality Control
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in QA/QC Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	Equipment Blank-1	Equipment Blank-2	Field Blank-1	Field Blank-2	Trip Blank-1	Trip Blank-2	Trip Blank-3
Acetone	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
Acrolein	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Acrylonitrile	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Allyl chloride	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Benzene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Bromodichloromethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Bromoform	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Bromomethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
2-Butanone (MEK)	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
Carbon tetrachloride	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Chlorobenzene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Chloroethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
2-Chloroethyl vinyl ether	0.002U	0.002U	0.002U	0.002U	0.002U	0.002U	0.002U
Chloroform	0.001U	0.018	0.001U	0.005	0.001U	0.001U	0.02
Chloromethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Dibromochloromethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,2-Dibromo-3-chloropropane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,2-Dibromoethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Dibromomethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,2-Dichlorobenzene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,3-Dichlorobenzene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,4-Dichlorobenzene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
trans-1,4-Dichloro-2-butene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
Dichlorodifluoromethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,1-Dichloroethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,2-Dichloroethane	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
1,1-Dichloroethene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
cis-1,2-Dichloroethene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
trans-1,2-Dichloroethene	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U

U-Compound analyzed for but not detected. Number indicates the DL.

QA/QC-Quality Assurance/Quality Control
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-010BH 2'-3'	01-010BH 9'-10'	01-011BH 2'-3'	01-011BH 10'-12'
1,2-Dichloropropane	0.005U	0.006U	0.006U	0.006U
cis-1,3-Dichloropropene	0.005U	0.006U	0.006U	0.006U
trans-1,3-Dichloropropene	0.008U	0.009U	0.009U	0.008U
Diethyl ether	0.014U	0.015U	0.016U	0.014U
Ethylbenzene	0.014U	0.015U	0.016U	0.014U
Ethylmethacrylate	0.014U	0.015U	0.016U	0.014U
2-Hexanone	0.016U	0.017U	0.019U	0.017U
Iodomethane	0.014U	0.015U	0.016U	0.014U
Methacrylonitrile	0.014U	0.015U	0.016U	0.014U
Methylene chloride	0.011U	0.012U	0.012U	0.011U
Methylmethacrylate	0.011U	0.012U	0.012U	0.011U
4-Methyl-2-pentanone (MIBK)	0.027U	0.029U	0.031U	0.028U
Propionitrile	0.027U	0.029U	0.031U	0.028U
Styrene	0.011U	0.012U	0.012U	0.011U
1,1,1,2-Tetrachloroethane	0.014U	0.015U	0.016U	0.014U
1,1,2,2-Tetrachloroethane	0.008U	0.009U	0.009U	0.008U
Tetrachloroethene	0.014U	0.015U	0.016U	0.014U
Toluene	0.06U	0.068U	0.068U	0.06U
1,1,1-Trichloroethane	0.014U	0.015U	0.016U	0.014U
1,1,2-Trichloroethane	0.008U	0.009U	0.009U	0.008U
Trichloroethene	0.005U	0.006U	0.006U	0.006U
Trichlorofluoromethane	0.014U	0.015U	0.016U	0.014U
1,2,3-Trichloropropane	0.008U	0.009U	0.009U	0.008U
m,p-Xylene	0.014U	0.015U	0.016U	0.014U
o-Xylene	0.011U	0.012U	0.012U	0.011U
Vinyl Chloride	0.005U	0.006U	0.006	0.006U
Carbon disulfide	0.014U	0.015U	0.016U	0.014U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-010BH 2'-3'	01-010BH 9'-10'	01-011BH 2'-3'	01-011BH 10'-12'
Acetone	0.3U	0.32U	0.34U	0.31U
Acrolein	0.014U	0.015U	0.016U	0.014U
Acrylonitrile	0.011U	0.012U	0.012U	0.011U
Allyl chloride	0.008U	0.009U	0.009U	0.008U
Benzene	0.008U	0.009U	0.009U	0.008U
Bromodichloromethane	0.008U	0.009U	0.009U	0.008U
Bromoform	0.005U	0.006U	0.006U	0.006U
Bromomethane	0.016U	0.017U	0.019U	0.017U
2-Butanone (MEK)	0.027U	0.029U	0.031U	0.028U
Carbon tetrachloride	0.008U	0.009U	0.009U	0.008U
Chlorobenzene	0.011U	0.012U	0.012U	0.011U
Chloroethane	0.005U	0.006U	0.006U	0.006U
2-Chloroethyl vinyl ether	0.027U	0.029U	0.031U	0.028U
Chloroform	0.008U	0.009U	0.009U	0.008U
Chloromethane	0.014U	0.015U	0.016U	0.014U
Dibromochloromethane	0.008U	0.009U	0.009U	0.008U
1,2-Dibromo-3-chloropropane	0.016U	0.017U	0.019U	0.017U
1,2-Dibromoethane	0.008U	0.009U	0.009U	0.008U
Dibromomethane	0.005U	0.006U	0.006U	0.006U
1,2-Dichlorobenzene	0.014U	0.015U	0.016U	0.014U
1,3-Dichlorobenzene	0.014U	0.015U	0.016U	0.014U
1,4-Dichlorobenzene	0.016U	0.017U	0.019U	0.017U
trans-1,4-Dichloro-2-butene	0.011U	0.012U	0.012U	0.011U
Dichlorodifluoromethane	0.008U	0.009U	0.009U	0.008U
1,1-Dichloroethane	0.008U	0.009U	0.009U	0.008U
1,2-Dichloroethane	0.008U	0.009U	0.009U	0.008U
1,1-Dichloroethene	0.014U	0.015U	0.016U	0.014U
cis-1,2-Dichloroethene	0.011U	0.012U	0.012U	0.011U
trans-1,2-Dichloroethene	0.011U	0.012U	0.012U	0.011U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-007BH 2'-3'	01-007BH 7'-8'	01-008BH 2'-3'	01-008BH 7'-8'	01-009BH 4'-5'	01-009BH 9'-10'
1,2-Dichloropropane	0.005U	0.006U	0.007U	0.006U	0.006U	0.005U
cis-1,3-Dichloropropene	0.005U	0.006U	0.007U	0.006U	0.006U	0.005U
trans-1,3-Dichloropropene	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Diethyl ether	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
Ethylbenzene	0.013U	0.015U	0.047	0.015U	0.015U	0.013U
Ethylmethacrylate	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
2-Hexanone	0.016U	0.018U	0.02U	0.017U	0.017U	0.016U
Iodomethane	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
Methacrylonitrile	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
Methylene chloride	0.01U	0.012U	0.013U	0.012U	0.012U	0.01U
Methylmethacrylate	0.01U	0.012U	0.013U	0.012U	0.012U	0.01U
4-Methyl-2-pentanone (MIBK)	0.026U	0.03U	0.033U	0.029U	0.029U	0.026U
Propionitrile	0.026U	0.03U	0.033U	0.029U	0.029U	0.026U
Styrene	0.01U	0.012U	0.013U	0.012U	0.012U	0.01U
1,1,1,2-Tetrachloroethane	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
1,1,2,2-Tetrachloroethane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Tetrachloroethene	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
Toluene	0.06U	0.068U	0.075U	0.068U	0.068U	0.06U
1,1,1-Trichloroethane	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
1,1,2-Trichloroethane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Trichloroethene	0.005U	0.006U	0.007U	0.006U	0.006U	0.005U
Trichlorofluoromethane	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
1,2,3-Trichloropropane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
m,p-Xylene	0.013U	0.015U	0.033	0.015U	0.015U	0.013U
o-Xylene	0.01U	0.012U	0.018	0.012U	0.012U	0.01U
Vinyl Chloride	0.005U	0.006U	0.007U	0.006U	0.006U	0.005U
Carbon disulfide	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-007BH 2'-3'	01-007BH 7'-8'	01-008BH 2'-3'	01-008BH 7'-8'	01-009BH 4'-5'	01-009BH 9'-10'
Acetone	0.29U	0.33U	0.36U	0.32U	0.32U	0.29U
Acrolein	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
Acrylonitrile	0.01U	0.012U	0.013U	0.012U	0.012U	0.01U
Allyl chloride	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Benzene	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Bromodichloromethane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Bromoform	0.005U	0.006U	0.007U	0.006U	0.006U	0.005U
Bromomethane	0.016U	0.018U	0.02U	0.017U	0.017U	0.016U
2-Butanone (MEK)	0.026U	0.03U	0.033U	0.029U	0.029U	0.026U
Carbon tetrachloride	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Chlorobenzene	0.01U	0.012U	0.013U	0.012U	0.012U	0.01U
Chloroethane	0.005U	0.006U	0.007U	0.006U	0.006U	0.005U
2-Chloroethyl vinyl ether	0.026U	0.03U	0.033U	0.029U	0.029U	0.026U
Chloroform	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Chloromethane	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
Dibromochloromethane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
1,2-Dibromo-3-chloropropane	0.016U	0.018U	0.02U	0.017U	0.017U	0.016U
1,2-Dibromoethane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
Dibromomethane	0.005U	0.006U	0.007U	0.006U	0.006U	0.005U
1,2-Dichlorobenzene	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
1,3-Dichlorobenzene	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
1,4-Dichlorobenzene	0.016U	0.018U	0.02U	0.017U	0.017U	0.016U
trans-1,4-Dichloro-2-butene	0.01U	0.012U	0.013U	0.012U	0.012U	0.01U
Dichlorodifluoromethane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
1,1-Dichloroethane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
1,2-Dichloroethane	0.008U	0.009U	0.01U	0.009U	0.009U	0.008U
1,1-Dichloroethene	0.013U	0.015U	0.017U	0.015U	0.015U	0.013U
cis-1,2-Dichloroethene	0.01U	0.012U	0.013U	0.012U	0.012U	0.01U
trans-1,2-Dichloroethene	0.01U	0.012U	0.013U	0.012U	0.012U	0.01U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-001BH 4.5'-5.5'	01-001BH 7'-8'	01-002BH 1'-2'	01-002BH 7'-8'	01-003BH 1'-3'	01-003BH 6'-8'
1,2-Dichloropropane	0.005U	0.006U	0.007U	0.006U	0.006U	0.006U
cis-1,3-Dichloropropene	0.005U	0.006U	0.007U	0.006U	0.006U	0.006U
trans-1,3-Dichloropropene	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Diethyl ether	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
Ethylbenzene	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
Ethylmethacrylate	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
2-Hexanone	0.016U	0.018U	0.02U	0.017U	0.017U	0.017U
Iodomethane	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
Methacrylonitrile	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
Methylene chloride	0.01U	0.012U	0.013U	0.011U	0.012U	0.011U
Methylmethacrylate	0.01U	0.012U	0.013U	0.011U	0.012U	0.011U
4-Methyl-2-pentanone (MIBK)	0.026U	0.03U	0.033U	0.028U	0.029U	0.028U
Propionitrile	0.026U	0.03U	0.033U	0.028U	0.029U	0.028U
Styrene	0.01U	0.012U	0.013U	0.011U	0.012U	0.011U
1,1,1,2-Tetrachloroethane	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
1,1,2,2-Tetrachloroethane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Tetrachloroethene	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
Toluene	0.06U	0.068U	0.075U	0.06U	0.068U	0.06U
1,1,1-Trichloroethane	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
1,1,2-Trichloroethane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Trichloroethene	0.005U	0.006U	0.007U	0.006U	0.006U	0.006U
Trichlorofluoromethane	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
1,2,3-Trichloropropane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
m,p-Xylene	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
o-Xylene	0.01U	0.012U	0.013U	0.011U	0.012U	0.011U
Vinyl Chloride	0.005U	0.006U	0.007U	0.006U	0.006U	0.006U
Carbon disulfide	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-001BH 4.5'-5.5'	01-001BH 7'-8'	01-002BH 1'-2'	01-002BH 7'-8'	01-003BH 1'-3'	01-003BH 6'-8'
Acetone	0.33U	0.85	0.36U	0.31U	0.32U	0.31U
Acrolein	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
Acrylonitrile	0.01U	0.012U	0.013U	0.011U	0.012U	0.011U
Allyl chloride	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Benzene	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Bromodichloromethane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Bromoform	0.005U	0.006U	0.007Ψ	0.006U	0.006U	0.006U
Bromomethane	0.016U	0.018U	0.02U	0.017U	0.017U	0.017U
2-Butanone (MEK)	0.026U	0.03U	0.033U	0.028U	0.029U	0.028U
Carbon tetrachloride	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Chlorobenzene	0.01U	0.012U	0.013U	0.011U	0.012U	0.011U
Chloroethane	0.005U	0.006U	0.007U	0.006U	0.006U	0.006U
2-Chloroethyl vinyl ether	0.026U	0.03U	0.033U	0.028U	0.029U	0.028U
Chloroform	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Chloromethane	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
Dibromochloromethane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
1,2-Dibromo-3-chloropropane	0.016U	0.018U	0.02U	0.017U	0.017U	0.017U
1,2-Dibromoethane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
Dibromomethane	0.005U	0.006U	0.007U	0.006U	0.006U	0.006U
1,2-Dichlorobenzene	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
1,3-Dichlorobenzene	0.013U	0.015U	0.017U	0.014U	0.015U	0.014U
1,4-Dichlorobenzene	0.016U	0.018U	0.02U	0.017U	0.017U	0.017U
trans-1,4-Dichloro-2-butene	0.01U	0.012U	0.013	0.011U	0.012U	0.011U
Dichlorodifluoromethane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
1,1-Dichloroethane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
1,2-Dichloroethane	0.008U	0.009U	0.01U	0.008U	0.009U	0.008U
1,1-Dichloroethene	0.013U	0.015U	0.017U	0.015U	0.015U	0.014U
cis-1,2-Dichloroethene	0.01U	0.012U	0.013U	0.011U	0.012U	0.011U
trans-1,2-Dichloroethene	0.01U	0.012U	0.013U	0.011U	0.012U	0.011U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-004BH 1'-2'	01-004BH 7'-8'	01-005BH 1'-2'	01-005BH 6'-8'	01-006BH 2'-3'	01-006BH 7'-8'
1,2-Dichloropropane	0.006U	0.007U	0.005U	0.006U	0.006U	0.007U
cis-1,3-Dichloropropene	0.006U	0.007U	0.005U	0.006U	0.006U	0.007U
trans-1,3-Dichloropropene	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Diethyl ether	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
Ethylbenzene	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
Ethylmethacrylate	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
2-Hexanone	0.018U	0.02U	0.016U	0.017U	0.018U	0.02U
Iodomethane	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
Methacrylonitrile	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
Methylene chloride	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U
Methylmethacrylate	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U
4-Methyl-2-pentanone (MIBK)	0.03U	0.033U	0.027U	0.028U	0.03U	0.033U
Propionitrile	0.03U	0.033U	0.027U	0.028U	0.03U	0.033U
Styrene	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U
1,1,1,2-Tetrachloroethane	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
1,1,2,2-Tetrachloroethane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Tetrachloroethene	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
Toluene	0.068U	0.075U	0.06U	0.06U	0.068U	0.075U
1,1,1-Trichloroethane	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
1,1,2-Trichloroethane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Trichloroethene	0.006U	0.007U	0.005U	0.006U	0.006U	0.007U
Trichlorofluoromethane	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
1,2,3-Trichloropropane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
m,p-Xylene	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
o-Xylene	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U
Vinyl Chloride	0.006U	0.007U	0.005U	0.006U	0.006U	0.007U
Carbon disulfide	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	01-004BH 1'-2'	01-004BH 7'-8'	01-005BH 1'-2'	01-005BH 6'-8'	01-006BH 2'-3'	01-006BH 7'-8'
Acetone	0.33U	0.36U	0.3U	0.31U	0.33U	0.36U
Acrolein	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
Acrylonitrile	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U
Allyl chloride	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Benzene	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Bromodichloromethane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Bromoform	0.006U	0.007U	0.005U	0.006U	0.006U	0.007U
Bromomethane	0.018U	0.02U	0.016U	0.017U	0.018U	0.02U
2-Butanone (MEK)	0.03U	0.033U	0.027U	0.028U	0.03U	0.033U
Carbon tetrachloride	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Chlorobenzene	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U
Chloroethane	0.006U	0.007U	0.005U	0.006U	0.006U	0.007U
2-Chloroethyl vinyl ether	0.03U	0.033U	0.027U	0.028U	0.03U	0.033U
Chloroform	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Chloromethane	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
Dibromochloromethane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
1,2-Dibromo-3-chloropropane	0.018U	0.02U	0.016U	0.017U	0.018U	0.02U
1,2-Dibromoethane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
Dibromomethane	0.006U	0.007U	0.005U	0.006U	0.006U	0.007U
1,2-Dichlorobenzene	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
1,3-Dichlorobenzene	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
1,4-Dichlorobenzene	0.018U	0.02U	0.016U	0.017U	0.018U	0.02U
trans-1,4-Dichloro-2-butene	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U
Dichlorodifluoromethane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
1,1-Dichloroethane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
1,2-Dichloroethane	0.009U	0.01U	0.008U	0.008U	0.009U	0.01U
1,1-Dichloroethene	0.015U	0.017U	0.014U	0.014U	0.015U	0.017U
cis-1,2-Dichloroethene	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U
trans-1,2-Dichloroethene	0.012U	0.013U	0.011U	0.011U	0.012U	0.013U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	BG-001BH 1'-2'	BG-001BH 4'-5'	BG-001BH 7'-8'	BG-002BH 1'-2'	BG-002BH 4'-5'	BG-002BH 7'-8'
1,2-Dichloropropane	0.007U	0.006U	0.006U	0.006U	0.006U	0.006U
cis-1,3-Dichloropropene	0.007U	0.006U	0.006U	0.006U	0.006U	0.006U
trans-1,3-Dichloropropene	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Diethyl ether	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
Ethylbenzene	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
Ethylmethacrylate	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
2-Hexanone	0.021U	0.017U	0.019U	0.019U	0.017U	0.018U
Iodomethane	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
Methacrylonitrile	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
Methylene chloride	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U
Methylmethacrylate	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U
4-Methyl-2-pentanone (MIBK)	0.035U	0.029U	0.031U	0.032U	0.028U	0.03U
Propionitrile	0.035U	0.029U	0.031U	0.032U	0.028U	0.03U
Styrene	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U
1,1,1,2-Tetrachloroethane	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
1,1,2,2-Tetrachloroethane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Tetrachloroethene	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
Toluene	0.083U	0.068U	0.068U	0.075U	0.06U	0.068U
1,1,1-Trichloroethane	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
1,1,2-Trichloroethane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Trichloroethene	0.007U	0.006U	0.006U	0.006U	0.006U	0.006U
Trichlorofluoromethane	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
1,2,3-Trichloropropane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
m,p-Xylene	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
o-Xylene	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U
Vinyl Chloride	0.007U	0.006U	0.006U	0.006U	0.006U	0.006U
Carbon disulfide	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

Summary of Analytical Results for Volatile Organic Compounds Detected in Soil Samples
221st and 254th Garland ANGS, Garland, Texas

Sample ID	BG-001BH 1'-2'	BG-001BH 4'-5'	BG-001BH 7'-8'	BG-002BH 1'-2'	BG-002BH 4'-5'	BG-002BH 7'-8'
Acetone	0.39U	0.32U	0.34U	0.35U	0.31U	0.3U
Acrolein	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
Acrylonitrile	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U
Allyl chloride	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Benzene	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Bromodichloromethane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Bromoform	0.007U	0.006U	0.006U	0.006U	0.006U	0.006U
Bromomethane	0.021U	0.017U	0.019U	0.019U	0.017U	0.018U
2-Butanone (MEK)	0.035U	0.029U	0.031U	0.032U	0.028U	0.03U
Carbon tetrachloride	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Chlorobenzene	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U
Chloroethane	0.007U	0.006U	0.006U	0.006U	0.006U	0.006U
2-Chloroethyl vinyl ether	0.035U	0.029U	0.031U	0.032U	0.028U	0.03U
Chloroform	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Chloromethane	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
Dibromochloromethane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
1,2-Dibromo-3-chloropropane	0.021U	0.017U	0.019U	0.019U	0.017U	0.018U
1,2-Dibromoethane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
Dibromomethane	0.007U	0.006U	0.006U	0.006U	0.006U	0.006U
1,2-Dichlorobenzene	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
1,3-Dichlorobenzene	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
1,4-Dichlorobenzene	0.021U	0.017U	0.019U	0.019U	0.017U	0.018U
trans-1,4-Dichloro-2-butene	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U
Dichlorodifluoromethane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
1,1-Dichloroethane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
1,2-Dichloroethane	0.011U	0.009U	0.009U	0.01U	0.008U	0.009U
1,1-Dichloroethene	0.018U	0.015U	0.016U	0.016U	0.014U	0.015U
cis-1,2-Dichloroethene	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U
trans-1,2-Dichloroethene	0.014U	0.012U	0.012U	0.013U	0.011U	0.012U

U-Compound analyzed for but not detected. Number indicates the DL.
J-Compound detected below the detection limit. Number indicates the concentration detected.

BH-Borehole
ug/kg-Results in microgram/kilogram

OPERATIONAL TECHNOLOGIES
CORPORATION

DATA VALIDATION FOR GARLAND AIR NATIONAL GUARD SITE INVESTIGATION GARLAND, TEXAS

CHEMRON LABORATORIES INCORPORATED

BG-001BH 1-2 (soil)

VOA/8260 =
**Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 =
**Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 =
**Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000=
****Hits that were detected above the detection limits were elements Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

****For all Metal Analysis:***
****A few of the methods were not correctly used as in reference to the workplan. For example Antimony, Chromium, Selenium, and Arsenic. Also, the DL for Cadmium in the workplan states to be in .0006 ppm? This might be a error in the workplan, this is too low for Cadmium DL's.***

BG-001BH 4-5 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

BG-001BH 7-8 (soil)

VOA/8260 =

**Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 =

**Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 =

**Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000=

****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

BG-002BH 1-2 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

BG-002BH 4-5 (soil)

VOA/8260 =

**Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 =

**Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 =

**Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000=

****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

BG-002BH 7-8 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-001BH 4.5-5.5 (soil)

VOA/8260 =

**Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 =

****Hit on Di-n-butylphalate at .46 mg/kg that is above the detection limit of .40 mg/kg.***
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 =

**Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000=

****Hits that were detected above the detection limits were elements Cadmium, Chromium, Copper, Lead, Nickel, Thallium, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-001BH 7-8 (soil)

VOA/8260 = ****Hit on Acetone at 0.85 mg/kg above the detection limit (.33 mg/kg).***
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Cadmium, Chromium, Copper, Lead, Nickel, Thallium, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-002BH 1-2 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Cadmium, Chromium, Copper, Lead, Nickel, Thallium, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-002BH 7-8 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Cadmium, Chromium, Copper, Lead, Nickel, Thallium, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-003BH 1-3 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-003BH 6-8 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = ****Hit on Di-n-butylphthalate at .64 mg/kg above the detection limit at .40 mg/kg.***
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-004BH 1-2 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = ****Hit on Phenanthrene at .44 mg/kg(.33 mg/kg), Di-n-butylphthalate at .53 mg/kg (.40 mg/kg), Fluorathene at .54 mg/kg (.33 mg/kg), Pyrene at .48 mg/kg (.40 mg/kg), and Benzo(a)anthracene at .34 mg/kg (.33 mg/kg) that were above the detection limit at .40 mg/kg.***
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-004BH 7-8 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = ****Hit on Di-n-butylphalate at .45 mg/kg that is above the detection limit of .40 mg/kg.***
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-005BH 1-2 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Thallium, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-005BH 6-8 (soil)

VOA/8260 =

**Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 =

**Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 =

**Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000=

****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-005BH 6-8 MS/MSD (soil)

VOA/8260	=	**All information verified against Chain of Custody.* **Holding times/analysis were met within the 14 day period.* **QC results, percent recoveries, and RPD's all within QC limits.* **Surrogate recoveries within QC Criteria.*
SVOA/8270	=	****No data for Matrix Spike/Matrix Spike Duplicate results delivered.***

01-006BH 2-3 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = ****Hit on Di-n-butylphthalate at .60 mg/kg above the detection limit at .40 mg/kg.***
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-006BH 7-8 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = ****Hit on Di-n-butylphthalate at .55 mg/kg above the detection limit at .40 mg/kg.***
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-007BH 2-3 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries, and RPD's all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000 = ****The only elements that were non detected were Arsenic, Antimony, Cadmium, Mercury, Selenium, Silver, and Thallium; all others were detected above the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-007BH 7-8 (soil)

VOA/8260 =

**Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 =

**Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 =

**Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000=

****Hits that were detected above the detection limits were elements Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-008BH 2-3 (soil)

VOA/8260 = ***Hits on Ethylbenzene(.047 mg/kg), m,p-xylene(.033 mg/kg), and o-xylene(.018 mg/kg) are above the detection limit of .017mg/kg except for o-xylene at .013 mg/kg.***
Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.
*All information verified against Chain of Custody.
*Holding times/analysis were met within the 14 day period.
*QC results, percent recoveries; all within QC limits.
*Surrogate recoveries within QC Criteria.

SVOA/8270 = *Clean, No hits above the detection limits.
*All information verified against Chain of Custody.
*Holding times met 7 day extraction/40 day extract analysis.
*QC results are below detection limits, percent recoveries, all within QC limits.
*Surrogate recoveries all within QC Criteria.

TPH/418.1 = ***Hit at 20 ppm that was above the detection limit (10 ppm).***
*All information verified against Chain of Custody.
*Holding times were met within the 28 day period.
*QC results, percent recoveries; all within QC limits.

METALS/6010-7000= ***Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
*All information verified against the Chain of Custody.
*All holding times were NOT exceeded within the 38 days of holding times.
*QC result % recovery and precision; all within QC Criteria.

01-008BH 7-8 ***(soil)***

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-009BH 4-5 (soil)

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries, and RPD's all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Thallium, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-009BH 9-10 *(soil)*

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries, and RPD's all within QC limits.*

METALS/6010-7000= ****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Thallium, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-010BH 3-4 (soil)

VOA/8260 = *Clean, No hits above the detection limit.
Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.
*All information verified against Chain of Custody.
*Holding times/analysis were met within the 14 day period.
*QC results, percent recoveries; all within QC limits.
*Surrogate recoveries within QC Criteria.

SVOA/8270 = *Clean, No hits above the detection limits.
*All information verified against Chain of Custody.
*Holding times met 7 day extraction/40 day extract analysis.
*QC results are below detection limits, percent recoveries, all within QC limits.
*Surrogate recoveries all within QC Criteria.

TPH/418.1 = *Clean, No hit above the detection limit (10 ppm).
*All information verified against Chain of Custody.
*Holding times were met within the 28 day period.
*QC results, percent recoveries, and RPD's all within QC limits.

METALS/6010-7000= ***Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
*All information verified against the Chain of Custody.
*All holding times were NOT exceeded within the 38 days of holding times.
*QC result % recovery and precision; all within QC Criteria.

01-010BH 9-10 (soil)

VOA/8260 =

**Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 =

**Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 =

**Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries, and RPD's all within QC limits.*

METALS/6010-7000=

****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

01-011BH 2-3 (soil)

VOA/8260 = ***Hit on Chloroform at .005 mg/l above the detection limit (.001 mg/l).***
Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.
*All information verified against Chain of Custody.
*Holding times/analysis were met within the 14 day period.
*QC results, percent recoveries; all within QC limits.
*Surrogate recoveries within QC Criteria.

SVOA/8270 = *Clean, No hits above the detection limits.
*All information verified against Chain of Custody.
*Holding times met 7 day extraction/40 day extract analysis.
*QC results are below detection limits, percent recoveries, all within QC limits.
*Surrogate recoveries all within QC Criteria.

TPH/418.1 = *Clean, No hit above the detection limit (10 ppm).
*All information verified against Chain of Custody.
*Holding times were met within the 28 day period.
*QC results, percent recoveries, and RPD's all within QC limits.

METALS/6010-7000= ***Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Thallium, and Zinc. All others were below the detection limits.***
*All information verified against the Chain of Custody.
*All holding times were NOT exceeded within the 38 days of holding times.
*QC result % recovery and precision; all within QC Criteria.

01-011BH 10-12 (soil)

VOA/8260 =

**Hit on Chloroform at .005 mg/l above the detection limit (.001 mg/l).*
**Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.*
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 =

**Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 =

**Clean, No hit above the detection limit (10 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries, and RPD's all within QC limits.*

METALS/6010-7000=

****Hits that were detected above the detection limits were elements Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc. All others were below the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

EB-1 *(water)*

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (.5 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000 = ****Clean EXCEPT for hits on Chromium, Lead, Selenium, and Zinc that were above the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

FB-1 *(water)*

VOA/8260 = **Clean, No hits above the detection limit.*
****Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.***
**All information verified against Chain of Custody.*
**Holding times/analysis were met within the 14 day period.*
**QC results, percent recoveries; all within QC limits.*
**Surrogate recoveries within QC Criteria.*

SVOA/8270 = **Clean, No hits above the detection limits.*
**All information verified against Chain of Custody.*
**Holding times met 7 day extraction/40 day extract analysis.*
**QC results are below detection limits, percent recoveries, all within QC limits.*
**Surrogate recoveries all within QC Criteria.*

TPH/418.1 = **Clean, No hit above the detection limit (.5 ppm).*
**All information verified against Chain of Custody.*
**Holding times were met within the 28 day period.*
**QC results, percent recoveries; all within QC limits.*

METALS/6010-7000 = ****Clean EXCEPT for hits on Chromium, Copper, Nickel, Selenium, Thallium, and Zinc that were above the detection limits.***
**All information verified against the Chain of Custody.*
**All holding times were NOT exceeded within the 38 days of holding times.*
**QC result % recovery and precision; all within QC Criteria.*

EB-2 *(water)*

VOA/8260 = ***Hit on Chloroform at .018 mg/l above the detection limit (.001 mg/l).***
Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.
*All information verified against Chain of Custody.
*Holding times/analysis were met within the 14 day period.
*QC results, percent recoveries; all within QC limits.
*Surrogate recoveries within QC Criteria.

SVOA/8270 = *Clean, No hits above the detection limits.
*All information verified against Chain of Custody.
*Holding times met 7 day extraction/40 day extract analysis.
*QC results are below detection limits, percent recoveries, all within QC limits.
*Surrogate recoveries all within QC Criteria.

TPH/418.1 = *Clean, No hit above the detection limit (.5 ppm).
*All information verified against Chain of Custody.
*Holding times were met within the 28 day period.
*QC results, percent recoveries, and RPD's all within QC limits.

METALS/6010-7000 = ***Clean EXCEPT for hits on Chromium, Copper, Lead, Selenium, and Zinc that were above the detection limits.***
*All information verified against the Chain of Custody.
*All holding times were NOT exceeded within the 38 days of holding times.
*QC result % recovery and precision; all within QC Criteria.

FB-2 *(water)*

VOA/8260 = ***Hit on Chloroform at .005 mg/l above the detection limit (.001 mg/l).***
Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.
*All information verified against Chain of Custody.
*Holding times/analysis were met within the 14 day period.
*QC results, percent recoveries; all within QC limits.
*Surrogate recoveries within QC Criteria.

SVOA/8270 = *Clean, No hits above the detection limits.
*All information verified against Chain of Custody.
*Holding times met 7 day extraction/40 day extract analysis.
*QC results are below detection limits, percent recoveries, all within QC limits.
*Surrogate recoveries all within QC Criteria.

TPH/418.1 = *Clean, No hit above the detection limit (.5 ppm).
*All information verified against Chain of Custody.
*Holding times were met within the 28 day period.
*QC results, percent recoveries, and RPD's all within QC limits.

METALS/6010-7000 = ***Clean EXCEPT for hits on Chromium, Lead, Nickel, and Zinc that were above the detection limits.***
*All information verified against the Chain of Custody.
*All holding times were NOT exceeded within the 38 days of holding times.
*QC result % recovery and precision; all within QC Criteria.

TRIP BLANK (water)

VOA/8260 = ***Hit on Chloroform at .020 mg/l above the detection limit (.001 mg/l).***

Detection limits much lower due to using EPA Method 8260 instead of EPA Method 8240.

*All information verified against Chain of Custody.

*Holding times/analysis were met within the 14 day period.

*QC results, percent recoveries; all within QC limits.

*Surrogate recoveries within QC Criteria.

Data results remain valid under the situation that a few surrogate recoveries exceeded the Quality Control Limits. Corrective actions were attempted for those sample surrogate recoveries that did not meet specifications of two base/neutral or two acid surrogates being out of limits or the recovery for any one base/neutral or acid surrogate that was below 10%. A reanalysis of those samples was then completed. If the reanalysis of the sample resolved the problem of the results not being within the Quality Control Limits, then the problem was within the laboratory's control. Those samples that did not display surrogate recoveries within the Quality Control Limits for both analyses then, was not within the laboratory's control including the attempt of a reanalysis. The surrogate recovery data and the sample analysis data from each analysis was reported displaying all results.

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Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/24/94
Chemron Sample #: 33586
Sample Matrix: Water

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: FB-2

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	10	UG/L	ND	01/21/94	8270
bis(2-Chloroethyl)ether	10	UG/L	ND	01/21/94	8270
2-Chlorophenol	10	UG/L	ND	01/21/94	8270
1,3-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
1,4-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
Benzyl Alcohol	10	UG/L	ND	01/21/94	8270
1,2-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
2-Methylphenol	10	UG/L	ND	01/21/94	8270
Bis(2-Chloroisopropyl)ether	10	UG/L	ND	01/21/94	8270
4-Methylphenol	10	UG/L	ND	01/21/94	8270
N-Nitros-Di-N-propylamine	20	UG/L	ND	01/21/94	8270
Hexachloroethane	10	UG/L	ND	01/21/94	8270
Nitrobenzene	10	UG/L	ND	01/21/94	8270
Isophorone	10	UG/L	ND	01/21/94	8270
2-Nitrophenol	10	UG/L	ND	01/21/94	8270
2,4-Dimethylphenol	10	UG/L	ND	01/21/94	8270
Benzoic Acid	50	UG/L	ND	01/21/94	8270
bis(2-Chloroethoxy)methane	10	UG/L	ND	01/21/94	8270
2,4-Dichlorophenol	10	UG/L	ND	01/21/94	8270
1,2,4-Trichlorobenzene	10	UG/L	ND	01/21/94	8270
Naphthalene	10	UG/L	ND	01/21/94	8270
4-Chloroaniline	10	UG/L	ND	01/21/94	8270
Hexachlorobutadiene	10	UG/L	ND	01/21/94	8270
4-Chloro-3-methylphenol	10	UG/L	ND	01/21/94	8270
2-Methylnaphthalene	20	UG/L	ND	01/21/94	8270
Hexachlorocyclopentadiene	10	UG/L	ND	01/21/94	8270
2,4,6-Trichlorophenol	10	UG/L	ND	01/21/94	8270
2,4,5-Trichlorophenol	50	UG/L	ND	01/21/94	8270
2-Chloronaphthalene	20	UG/L	ND	01/21/94	8270
2-Nitroaniline	50	UG/L	ND	01/21/94	8270
Dimethyl phthalate	10	UG/L	ND	01/21/94	8270
Acenaphthylene	10	UG/L	ND	01/21/94	8270

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Chemron Sample #: 33586

SEMI-VOLATILES ANALYSIS REPORT

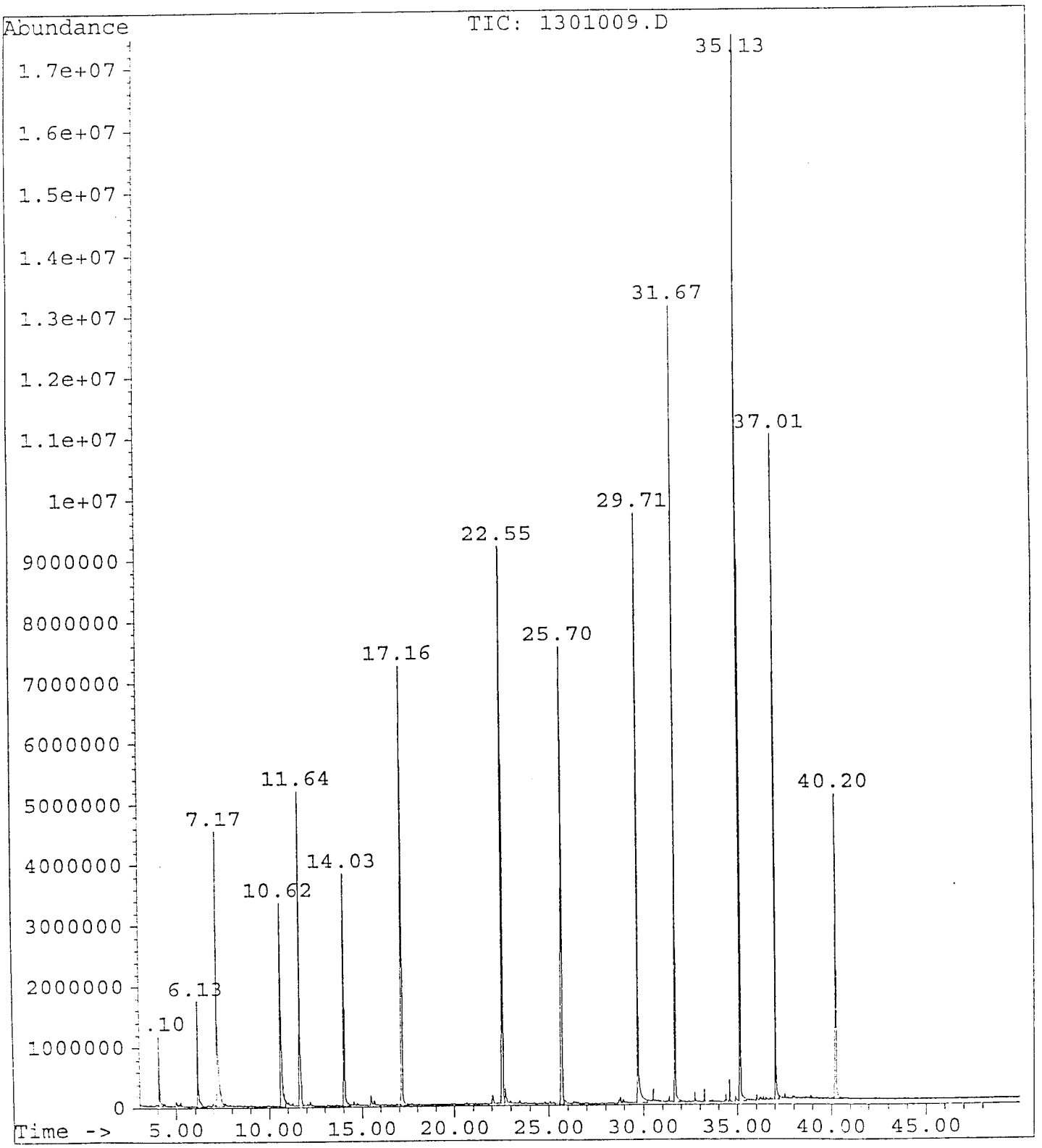
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	50	UG/L	ND	01/21/94	8270
Acenaphthene	10	UG/L	ND	01/21/94	8270
2,4-Dinitrophenol	50	UG/L	ND	01/21/94	8270
4-Nitrophenol	50	UG/L	ND	01/21/94	8270
Dibenzofuran	10	UG/L	ND	01/21/94	8270
2,4-Dinitrotoluene	10	UG/L	ND	01/21/94	8270
2,6-Dinitrotoluene	10	UG/L	ND	01/21/94	8270
4-Chlorophenyl phenyl ether	10	UG/L	ND	01/21/94	8270
Fluorene	10	UG/L	ND	01/21/94	8270
4-Nitroaniline	50	UG/L	ND	01/21/94	8270
4,6-Dinitro-2-methylphenol	50	UG/L	ND	01/21/94	8270
N-Nitrosodiphenylamine	10	UG/L	ND	01/21/94	8270
4-Bromophenyl phenyl ether	10	UG/L	ND	01/21/94	8270
Hexachlorobenzene	10	UG/L	ND	01/21/94	8270
Pentachlorophenol	30	UG/L	ND	01/21/94	8270
Phenanthrene	10	UG/L	ND	01/21/94	8270
Anthracene	10	UG/L	ND	01/21/94	8270
Di-n-butylphthalate	10	UG/L	ND	01/21/94	8270
Fluoranthene	10	UG/L	ND	01/21/94	8270
Pyrene	10	UG/L	ND	01/21/94	8270
Butyl benzyl phthalate	10	UG/L	ND	01/21/94	8270
3,3'-Dichlorobenzidine	20	UG/L	ND	01/21/94	8270
Benzo(a)anthracene	10	UG/L	ND	01/21/94	8270
bis(2-ethylhexyl)phthalate	10	UG/L	ND	01/21/94	8270
Chrysene	10	UG/L	ND	01/21/94	8270
Di-n-octyl phthalate	10	UG/L	ND	01/21/94	8270
Benzo(b)fluoranthene	10	UG/L	ND	01/21/94	8270
Benzo(k)fluoranthene	10	UG/L	ND	01/21/94	8270
Benzo(a)pyrene	10	UG/L	ND	01/21/94	8270
Indeno(1,2,3-cd)pyrene	10	UG/L	ND	01/21/94	8270
Dibenz(a,h)anthracene	10	UG/L	ND	01/21/94	8270
Benzo(g,h,i)perylene	10	UG/L	ND	01/21/94	8270

ND - Not Detected

Approved By: R. Williams

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\1301009.D
Operator: Vergel C.
Date Acquired: 21 Jan 94 6:10 pm
Method File: 1118.M
Sample Name: 33586 optech
Misc Info: HP 5970II ex: 01/21/94 1000/1mL BNA
ALS vial: 13



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 1301009.D
Sample Desc. 33586 optech
Misc. Info. HP 5970II ex: 01/21/94 1000/1mL BNA

Date Analyzed: 21 Jan 94 6:10 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	42	3.630	N-Nitrosodimethylamine		0.01	< DL	0.00	
2	79	3.630	Pyridine		0.00	< DL	3.63	
3	42	5.762	N-Nitrosomethylethylamine		0.05	< DL	0.15	
4	112	7.234	2-Fluorophenol		54.88	64.83	0.04	
5	102	7.863	N-Nitrosodiethylamine		0.00	< DL	7.86	
6	93	10.479	Aniline		0.02	< DL	0.01	
7	99	10.725	Phenol d5		49.39	42.75	0.11	
8	94	10.762	Phenol		0.61	< DL	0.09	
9	93	10.876	Bis(2-chloroethyl)ether		0.01	< DL	0.03	
10	128	10.901	2-Chlorophenol		0.35	< DL	0.00	
11	146	11.405	1,3-Dichlorobenzene		0.00	< DL	11.40	
12	152	11.669	1,4-Dichlorobenzene d4		33.52	40.00	0.03	
13	146	11.745	1,4-Dichlorobenzene		0.19	< DL	0.03	
14	146	12.311	1,2-Dichlorobenzene		0.00	< DL	12.31	
15	108	12.500	Benzyl alcohol		0.02	< DL	0.30	
16	45	13.067	Bis(2-chloroisopropyl)ether		0.08	< DL	0.00	
17	108	13.140	2-Methylphenol		0.00	< DL	13.14	
18	105	13.521	Acetophenone		0.03	< DL	0.13	
19	117	13.672	Hexachloroethane		0.00	< DL	13.67	
20	70	13.729	N-Nitrosodi-n-propylamine		5.62	6.65	0.30	trace
21	108	13.893	4-Methylphenol	*	0.01	< DL	0.12	
22	82	14.126	Nitrobenzene d5		41.16	33.65	0.10	
23	77	14.189	Nitrobenzene		0.01	< DL	0.01	
24	82	15.335	Isophorone		0.05	< DL	0.03	
25	139	15.581	2-Nitrophenol		0.00	< DL	15.58	
26	122	16.148	2,4-Dimethylphenol		0.01	< DL	0.11	
27	93	16.526	Bis(2-chloroethoxy)methane		0.00	< DL	16.53	
28	162	16.784	2,4-Dichlorophenol		0.00	< DL	16.78	
29	180	16.999	1,2,4-Trichlorobenzene		0.11	< DL	0.03	
30	136	17.188	Naphthalene d8		114.79	40.00	0.03	
31	128	17.283	Naphthalene		0.15	< DL	0.05	
32	122	17.293	Benzoic acid		0.04	< DL	0.13	
33	58	17.776	a-,a-Dimethylphenethylamine		0.02	< DL	0.01	
34	162	17.776	2,6-Dichlorophenol		0.00	< DL	17.78	
35	127	17.814	4-Chloroaniline		0.00	< DL	17.81	
36	225	18.022	Hexachlorobutadiene		0.00	< DL	18.02	
37	84	19.625	N-Nitrosodi-n-butylamine		0.01	< DL	0.10	
38	107	20.435	4-Chloro-3-methylphenol		0.07	< DL	0.23	
39	115	20.643	2-Methylnaphthalene		0.00	< DL	20.64	
40	237	21.435	Hexachlorocyclopentadiene		0.00	< DL	21.44	
41	216	21.454	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.45	
42	196	22.192	2,4,6-Trichlorophenol		0.00	< DL	22.19	
43	196	22.362	2,4,5-Trichlorophenol		0.00	< DL	22.36	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.609	2-Fluorobiphenyl	111.70	58.76	0.04	
45	162	22.950	2-Chloronaphthalene	0.02	< DL	0.08	
46	65	23.703	2-Nitroaniline	0.01	< DL	0.00	
47	163	24.889	Dimethylphthalate	0.01	< DL	0.06	
48	152	24.926	Acenaphthylene	0.00	< DL	24.93	
49	165	25.059	2,6-Dinitrotoluene	0.03	< DL	0.02	
50	164	25.720	Acenaphthene d10	67.81	40.00	0.02	
51	138	25.890	3-Nitroaniline	0.00	< DL	25.89	
52	154	25.928	Acenaphthene	0.22	< DL	0.06	
53	184	26.693	2,4-Dinitrophenol	0.00	< DL	26.69	
54	250	26.760	Pentachlorobenzene	0.00	< DL	26.76	
55	168	27.063	Dibenzofuran	0.00	< DL	27.06	
56	165	27.479	2,4-Dinitrotoluene	0.00	< DL	27.48	
57	143	27.612	1-Naphthylamine	0.00	< DL	27.61	
58	139	27.719	4-Nitrophenol	0.00	< DL	27.72	
59	232	27.972	2,3,4,6-Tetrachlorophenol	0.00	< DL	27.97	
60	143	28.086	2-Naphthylamine	0.00	< DL	28.09	
61	166	28.806	Fluorene	0.00	< DL	28.81	
62	149	28.888	Diethylphthalate	0.21	< DL	0.10	
63	204	28.996	4-Chorophenylphenyl ether	0.00	< DL	29.00	
64	138	29.204	4-Nitroaniline	0.00	< DL	29.20	
65	198	29.318	4,6-Dinitro-2-methylphenol	0.09	< DL	0.39	
66	169	29.546	N-Nitroso-di-n-phenylamine **	1.29	< DL	0.16	
67	77	29.590	1,2-Diphenylhydrazine/Azobenze	0.26	< DL	0.12	
68	330	29.773	2,4,6-Tribromophenol	27.61	89.30	0.06	
69	248	30.607	4-Bromophenylphenylether	0.00	< DL	30.61	
70	284	30.646	Hexachlorobenzene	0.00	< DL	30.65	
71	108	30.722	Phenacetin	0.02	< DL	0.22	
72	295	31.290	Pentachloronitrobenzene	0.00	< DL	31.29	
73	266	31.328	Pentachlorophenol	0.00	< DL	31.33	
74	169	31.366	4-Aminobiphenyl	0.01	< DL	0.03	
75	188	31.708	Phenanthrene d10	104.87	40.00	0.03	
76	178	31.765	Phenanthrene	0.06	< DL	0.09	
77	178	31.765	Anthracene	0.06	< DL	0.09	
78	149	33.245	Di-n-butylphthalate	1.90	< DL	0.02	
79	202	34.363	Fluoranthene	0.02	< DL	0.21	
80	184	34.686	Benzidine	2.10	2.12	0.44	trace
81	202	34.800	Pyrene	0.06	< DL	0.00	
82	244	35.142	Terphenyl d14	174.83	88.38	0.00	
83	149	36.053	Butylbenzylphthalate	0.36	< DL	0.02	
84	252	36.985	3,3-Dichlorobenzidine	0.00	< DL	36.98	
85	228	37.020	Benzo(a)anthracene	0.27	< DL	0.01	
86	240	37.042	Chrysene d12	70.14	40.00	0.03	
87	149	37.080	Bis(2-ethylhexyl)phthalate	0.43	< DL	0.03	
88	228	37.100	Chrysene	0.27	< DL	0.09	
89	149	38.316	Di-n-octylphthalate	0.06	< DL	0.13	
90	252	39.247	Benzo(b)fluoranthene	0.00	< DL	39.25	
91	252	39.320	Benzo(k)fluoranthene	0.00	< DL	39.32	
92	252	40.077	Benzo(a)pyrene	0.25	< DL	0.13	
93	264	40.216	Perylene d12	48.10	40.00	0.01	
94	268	41.071	3-Methylcholanthrene	0.00	< DL	41.07	
95	276	43.843	Indeno(1,2,3-cd)pyrene	0.00	< DL	43.84	
96	278	43.912	Dibenz(a,h)anthracene	0.00	< DL	43.91	
97	276	44.936	Benzo(g,h,i)perylene	0.00	< DL	44.94	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

1301009.D

Chemron Inc
QC Summary Report

Data File 1301009.D
Sample Desc. 33586 optech
Misc. Info. HP 5970II ex: 01/21/94 1000/1mL BNA

Date Analyzed: 21 Jan 94 6:10 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.64	1,4-Dichlorobenzene d4	40.00	Pass	30.56	33.52
2	17.16	Napthalene d8	40.00	Pass	103.30	114.79
3	25.70	Acenaphthene d10	40.00	Pass	61.78	67.81
4	31.67	Phenanthrene d10	40.00	Pass	90.44	104.87
5	37.01	Chrysene d12	40.00	Pass	50.21	70.14
6	40.20	Perylene d12	40.00	Pass	26.97	48.10

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.19	2-Fluorophenol	200.00	Pass	64.83	32
10.62	Phenol d5	200.00	Pass	42.75	21
14.03	Nitrobenzene d5	100.00	Pass	33.65	34
22.57	2-Fluorobiphenyl	100.00	Pass	58.76	59
29.71	2,4,6-Tribromophenol	200.00	Pass	89.30	45
35.14	Terphenyl d14	100.00	Pass	88.38	88

1301009.D

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/24/94
Chemron Sample #: 33570
Sample Matrix: Water

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: FB-1

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	10	UG/L	ND	01/21/94	8270
bis(2-Chloroethyl)ether	10	UG/L	ND	01/21/94	8270
2-Chlorophenol	10	UG/L	ND	01/21/94	8270
1,3-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
1,4-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
Benzyl Alcohol	10	UG/L	ND	01/21/94	8270
1,2-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
2-Methylphenol	10	UG/L	ND	01/21/94	8270
Bis(2-Chloroisopropyl)ether	10	UG/L	ND	01/21/94	8270
4-Methylphenol	10	UG/L	ND	01/21/94	8270
N-Nitros-Di-N-propylamine	20	UG/L	ND	01/21/94	8270
Hexachloroethane	10	UG/L	ND	01/21/94	8270
Nitrobenzene	10	UG/L	ND	01/21/94	8270
Isophorone	10	UG/L	ND	01/21/94	8270
2-Nitrophenol	10	UG/L	ND	01/21/94	8270
2,4-Dimethylphenol	10	UG/L	ND	01/21/94	8270
Benzoic Acid	50	UG/L	ND	01/21/94	8270
bis(2-Chloroethoxy)methane	10	UG/L	ND	01/21/94	8270
2,4-Dichlorophenol	10	UG/L	ND	01/21/94	8270
1,2,4-Trichlorobenzene	10	UG/L	ND	01/21/94	8270
Naphthalene	10	UG/L	ND	01/21/94	8270
4-Chloroaniline	10	UG/L	ND	01/21/94	8270
Hexachlorobutadiene	10	UG/L	ND	01/21/94	8270
4-Chloro-3-methylphenol	10	UG/L	ND	01/21/94	8270
2-Methylnaphthalene	20	UG/L	ND	01/21/94	8270
Hexachlorocyclopentadiene	10	UG/L	ND	01/21/94	8270
2,4,6-Trichlorophenol	10	UG/L	ND	01/21/94	8270
2,4,5-Trichlorophenol	50	UG/L	ND	01/21/94	8270
2-Chloronaphthalene	20	UG/L	ND	01/21/94	8270
2-Nitroaniline	50	UG/L	ND	01/21/94	8270
Dimethyl phthalate	10	UG/L	ND	01/21/94	8270
Acenaphthylene	10	UG/L	ND	01/21/94	8270

CHEMRON
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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33570

SEMI-VOLATILES ANALYSIS REPORT

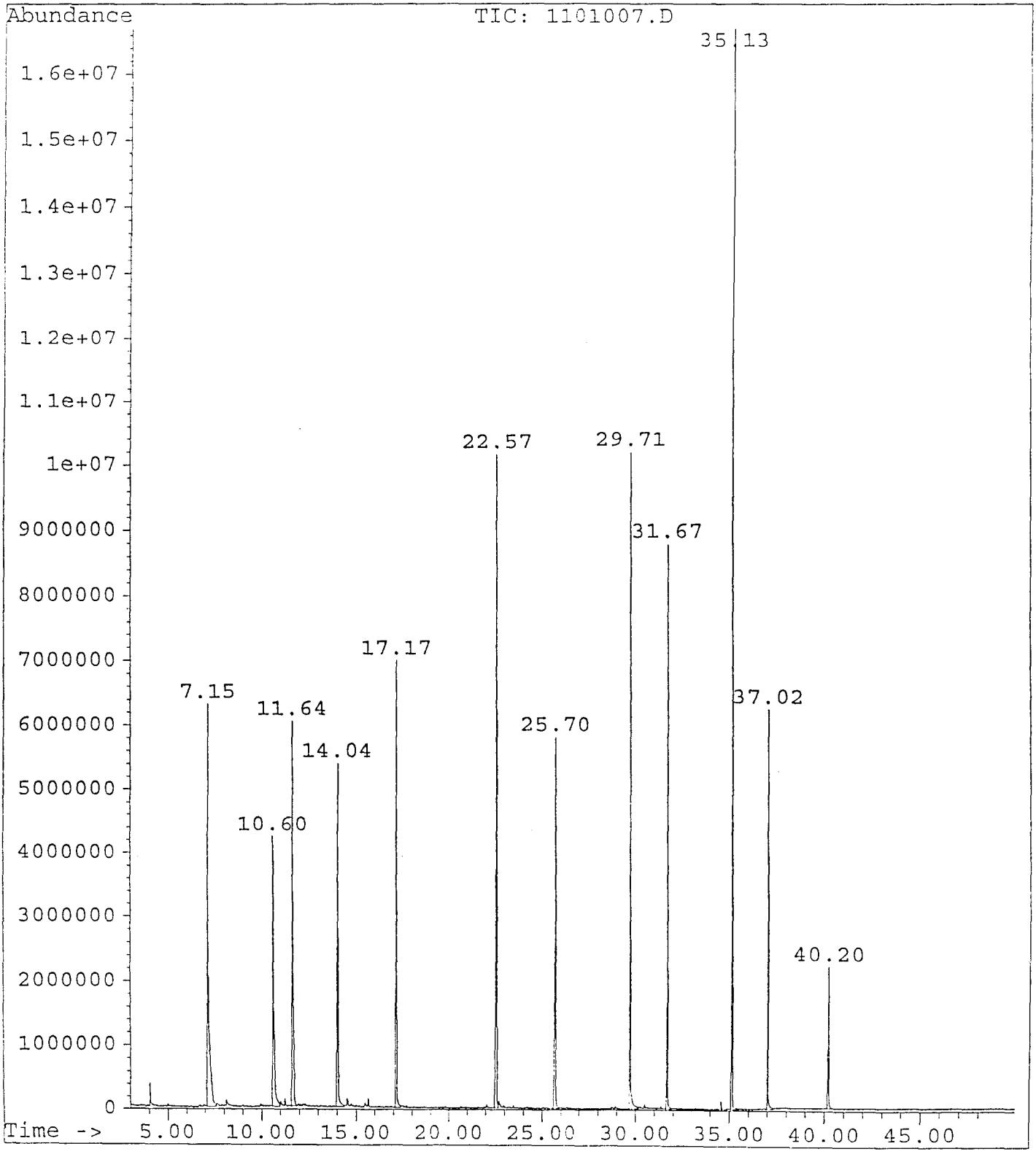
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	50	UG/L	ND	01/21/94	8270
Acenaphthene	10	UG/L	ND	01/21/94	8270
2,4-Dinitrophenol	50	UG/L	ND	01/21/94	8270
4-Nitrophenol	50	UG/L	ND	01/21/94	8270
Dibenzofuran	10	UG/L	ND	01/21/94	8270
2,4-Dinitrotoluene	10	UG/L	ND	01/21/94	8270
2,6-Dinitrotoluene	10	UG/L	ND	01/21/94	8270
4-Chlorophenyl phenyl ether	10	UG/L	ND	01/21/94	8270
Fluorene	10	UG/L	ND	01/21/94	8270
4-Nitroaniline	50	UG/L	ND	01/21/94	8270
4,6-Dinitro-2-methylphenol	50	UG/L	ND	01/21/94	8270
N-Nitrosodiphenylamine	10	UG/L	ND	01/21/94	8270
4-Bromophenyl phenyl ether	10	UG/L	ND	01/21/94	8270
Hexachlorobenzene	10	UG/L	ND	01/21/94	8270
Pentachlorophenol	30	UG/L	ND	01/21/94	8270
Phenanthrene	10	UG/L	ND	01/21/94	8270
Anthracene	10	UG/L	ND	01/21/94	8270
Di-n-butylphthalate	10	UG/L	ND	01/21/94	8270
Fluoranthene	10	UG/L	ND	01/21/94	8270
Pyrene	10	UG/L	ND	01/21/94	8270
Butyl benzyl phthalate	10	UG/L	ND	01/21/94	8270
3,3'-Dichlorobenzidine	20	UG/L	ND	01/21/94	8270
Benzo(a)anthracene	10	UG/L	ND	01/21/94	8270
bis(2-ethylhexyl)phthalate	10	UG/L	ND	01/21/94	8270
Chrysene	10	UG/L	ND	01/21/94	8270
Di-n-octyl phthalate	10	UG/L	ND	01/21/94	8270
Benzo(b)fluoranthene	10	UG/L	ND	01/21/94	8270
Benzo(k)fluoranthene	10	UG/L	ND	01/21/94	8270
Benzo(a)pyrene	10	UG/L	ND	01/21/94	8270
Indeno(1,2,3-cd)pyrene	10	UG/L	ND	01/21/94	8270
Dibenz(a,h)anthracene	10	UG/L	ND	01/21/94	8270
Benzo(g,h,i)perylene	10	UG/L	ND	01/21/94	8270

ND - Not Detected

Approved By: R. Graham

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\1101007.D
Operator: Vergel C.
Date Acquired: 21 Jan 94 4:08 pm
Method File: 1118.M
Sample Name: ~~33470~~ 33570 optech
Misc Info: HP 5970II ex: 01/20/94 1000/1mL BNA
ALS vial: 11



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 1101007.D
Sample Desc. ~~33470~~ 33570 bptech
Misc. Info. HP 5970II ex: 01/20/94 1000/1mL BNA

Date Analyzed: 21 Jan 94 4:08 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	42	3.630	N-Nitrosodimethylamine		0.03	< DL	0.13	
2	79	3.630	Pyridine		0.00	< DL	3.63	
3	42	5.762	N-Nitrosomethylethylamine		0.04	< DL	0.02	
4	112	7.234	2-Fluorophenol		74.00	78.30	0.08	
5	102	7.863	N-Nitrosodiethylamine		0.00	< DL	7.86	
6	93	10.479	Aniline		0.03	< DL	0.03	
7	99	10.725	Phenol d5		69.66	54.01	0.12	
8	94	10.762	Phenol		0.30	< DL	0.10	
9	93	10.876	Bis(2-chloroethyl)ether		0.02	< DL	0.10	
10	128	10.901	2-Chlorophenol		0.22	< DL	0.01	
11	146	11.405	1,3-Dichlorobenzene		0.00	< DL	11.40	
12	152	11.669	1,4-Dichlorobenzene d4		37.42	40.00	0.03	
13	146	11.745	1,4-Dichlorobenzene		0.56	< DL	0.03	
14	146	12.311	1,2-Dichlorobenzene		0.01	< DL	0.03	
15	108	12.500	Benzyl alcohol		0.00	< DL	12.50	
16	45	13.067	Bis(2-chloroisopropyl)ether		0.07	< DL	0.06	
17	108	13.140	2-Methylphenol		0.00	< DL	13.14	
18	105	13.521	Acetophenone		0.05	< DL	0.01	
19	117	13.672	Hexachloroethane		0.00	< DL	13.67	
20	70	13.729	N-Nitrosodi-n-propylamine		8.67	9.18	0.31	trace
21	108	13.893	4-Methylphenol	*	0.03	< DL	0.14	
22	82	14.126	Nitrobenzene d5		61.23	52.56	0.09	
23	77	14.189	Nitrobenzene		0.03	< DL	0.02	
24	82	15.335	Isophorone		0.01	< DL	0.04	
25	139	15.581	2-Nitrophenol		0.00	< DL	15.58	
26	122	16.148	2,4-Dimethylphenol		0.00	< DL	16.15	
27	93	16.526	Bis(2-chloroethoxy)methane		0.01	< DL	0.19	
28	162	16.784	2,4-Dichlorophenol		0.00	< DL	16.78	
29	180	16.999	1,2,4-Trichlorobenzene		0.04	< DL	0.02	
30	136	17.188	Napthalene d8		109.33	40.00	0.02	
31	128	17.283	Naphthalene		0.24	< DL	0.04	
32	122	17.293	Benzoic acid		0.03	< DL	0.13	
33	58	17.776	a-,a-Dimethylphenethylamine		0.04	< DL	0.27	
34	162	17.776	2,6-Dichlorophenol		0.00	< DL	17.78	
35	127	17.814	4-Chloroaniline		0.00	< DL	17.81	
36	225	18.022	Hexachlorobutadiene		0.00	< DL	18.02	
37	84	19.625	N-Nitrosodi-n-butylamine		0.01	< DL	0.07	
38	107	20.435	4-Chloro-3-methylphenol		0.00	< DL	20.44	
39	115	20.643	2-Methylnaphthalene		0.00	< DL	20.64	
40	237	21.435	Hexachlorocyclopentadiene		0.00	< DL	21.44	
41	216	21.454	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.45	
42	196	22.192	2,4,6-Trichlorophenol		0.00	< DL	22.19	
43	196	22.362	2,4,5-Trichlorophenol		0.00	< DL	22.36	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.609	2-Fluorobiphenyl	108.95	79.56	0.04	
45	162	22.950	2-Chloronaphthalene	0.02	< DL	0.08	
46	65	23.703	2-Nitroaniline	0.01	< DL	0.28	
47	163	24.889	Dimethylphthalate	0.00	< DL	24.89	
48	152	24.926	Acenaphthylene	0.00	< DL	24.93	
49	165	25.059	2,6-Dinitrotoluene	0.01	< DL	0.04	
50	164	25.720	Acenaphthene d10	48.86	40.00	0.02	
51	138	25.890	3-Nitroaniline	0.00	< DL	25.89	
52	154	25.928	Acenaphthene	0.03	< DL	0.08	
53	184	26.693	2,4-Dinitrophenol	0.00	< DL	26.69	
54	250	26.760	Pentachlorobenzene	0.00	< DL	26.76	
55	168	27.063	Dibenzofuran	0.00	< DL	27.06	
56	165	27.479	2,4-Dinitrotoluene	0.00	< DL	27.48	
57	143	27.612	1-Naphthylamine	0.00	< DL	27.61	
58	139	27.719	4-Nitrophenol	0.00	< DL	27.72	
59	232	27.972	2,3,4,6-Tetrachlorophenol	0.00	< DL	27.97	
60	143	28.086	2-Naphthylamine	0.00	< DL	28.09	
61	166	28.806	Fluorene	0.00	< DL	28.81	
62	149	28.888	Diethylphthalate	0.07	< DL	0.10	
63	204	28.996	4-Chorophenylphenyl ether	0.00	< DL	29.00	
64	138	29.204	4-Nitroaniline	0.00	< DL	29.20	
65	198	29.318	4,6-Dinitro-2-methylphenol	0.10	< DL	0.39	
66	169	29.546	N-Nitroso-di-n-phenylamine **	1.24	1.40	0.16	trace
67	77	29.590	1,2-Diphenylhydrazine/Azobenze	0.28	< DL	0.12	
68	330	29.773	2,4,6-Tribromophenol	22.07	99.08	0.06	
69	248	30.607	4-Bromophenylphenylether	0.00	< DL	30.61	
70	284	30.646	Hexachlorobenzene	0.00	< DL	30.65	
71	108	30.722	Phenacetin	0.00	< DL	30.72	
72	295	31.290	Pentachloronitrobenzene	0.00	< DL	31.29	
73	266	31.328	Pentachlorophenol	0.00	< DL	31.33	
74	169	31.366	4-Aminobiphenyl	0.08	< DL	0.30	
75	188	31.708	Phenanthrene d10	62.09	40.00	0.04	
76	178	31.765	Phenanthrene	0.03	< DL	0.10	
77	178	31.765	Anthracene	0.03	< DL	0.10	
78	149	33.245	Di-n-butylphthalate	0.14	< DL	0.03	
79	202	34.363	Fluoranthene	0.01	< DL	0.22	
80	184	34.686	Benzidine	1.73	3.81	0.45	trace
81	202	34.800	Pyrene	0.39	< DL	0.33	
82	244	35.142	Terphenyl d14	110.48	121.93	0.01	
83	149	36.053	Butylbenzylphthalate	0.03	< DL	0.02	
84	252	36.985	3,3-Dichlorobenzidine	0.00	< DL	36.98	
85	228	37.020	Benzo(a)anthracene	0.12	< DL	0.00	
86	240	37.042	Chrysene d12	32.13	40.00	0.02	
87	149	37.080	Bis(2-ethylhexyl)phthalate	0.04	< DL	0.02	
88	228	37.100	Chrysene	0.12	< DL	0.08	
89	149	38.316	Di-n-octylphthalate	0.01	< DL	0.09	
90	252	39.247	Benzo(b)fluoranthene	0.00	< DL	39.25	
91	252	39.320	Benzo(k)fluoranthene	0.00	< DL	39.32	
92	252	40.077	Benzo(a)pyrene	0.10	< DL	0.12	
93	264	40.216	Perylene d12	19.22	40.00	0.01	
94	268	41.071	3-Methylcholanthrene	0.00	< DL	41.07	
95	276	43.843	Indeno(1,2,3-cd)pyrene	0.00	< DL	43.84	
96	278	43.912	Dibenz(a,h)anthracene	0.00	< DL	43.91	
97	276	44.936	Benzo(g,h,i)perylene	0.00	< DL	44.94	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

1101007.D

Chemron Inc
QC Summary Report

Data File 1101007.D
Sample Desc. ~~33470~~ optech 33570
Misc. Info. ~~HP~~ 5970II ex: 01/20/94 1000/1mL BNA

Date Analyzed: 21 Jan 94 4:08 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.64	1,4-Dichlorobenzene d4	40.00	Pass	30.56	37.42
2	17.17	Napthalene d8	40.00	Pass	103.30	109.33
3	25.70	Acenaphthene d10	40.00	Pass	61.78	48.86
4	31.67	Phenanthrene d10	40.00	Pass	90.44	62.09
5	37.02	Chrysene d12	40.00	Pass	50.21	32.13
6	40.20	Perylene d12	40.00	Pass	26.97	19.22

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.15	2-Fluorophenol	200.00	Pass	78.30	39
10.60	Phenol d5	200.00	Pass	54.01	27
14.04	Nitrobenzene d5	100.00	Pass	52.56	53
22.57	2-Fluorobiphenyl	100.00	Pass	79.56	80
29.71	2,4,6-Tribromophenol	200.00	Pass	99.08	50
35.13	Terphenyl d14	100.00	Pass	121.93	122

1101007.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/24/94
Chemron Sample #: 33585
Sample Matrix: Water

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS Garland, Texas
Client Sample #: EB-2

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	10	UG/L	ND	01/21/94	8270
bis(2-Chloroethyl)ether	10	UG/L	ND	01/21/94	8270
2-Chlorophenol	10	UG/L	ND	01/21/94	8270
1,3-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
1,4-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
Benzyl Alcohol	10	UG/L	ND	01/21/94	8270
1,2-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
2-Methylphenol	10	UG/L	ND	01/21/94	8270
Bis(2-Chloroisopropyl)ether	10	UG/L	ND	01/21/94	8270
4-Methylphenol	10	UG/L	ND	01/21/94	8270
N-Nitros-Di-N-propylamine	20	UG/L	ND	01/21/94	8270
Hexachloroethane	10	UG/L	ND	01/21/94	8270
Nitrobenzene	10	UG/L	ND	01/21/94	8270
Isophorone	10	UG/L	ND	01/21/94	8270
2-Nitrophenol	10	UG/L	ND	01/21/94	8270
2,4-Dimethylphenol	10	UG/L	ND	01/21/94	8270
Benzoic Acid	50	UG/L	ND	01/21/94	8270
bis(2-Chloroethoxy)methane	10	UG/L	ND	01/21/94	8270
2,4-Dichlorophenol	10	UG/L	ND	01/21/94	8270
1,2,4-Trichlorobenzene	10	UG/L	ND	01/21/94	8270
Naphthalene	10	UG/L	ND	01/21/94	8270
4-Chloroaniline	10	UG/L	ND	01/21/94	8270
Hexachlorobutadiene	10	UG/L	ND	01/21/94	8270
4-Chloro-3-methylphenol	10	UG/L	ND	01/21/94	8270
2-Methylnaphthalene	20	UG/L	ND	01/21/94	8270
Hexachlorocyclopentadiene	10	UG/L	ND	01/21/94	8270
2,4,6-Trichlorophenol	10	UG/L	ND	01/21/94	8270
2,4,5-Trichlorophenol	50	UG/L	ND	01/21/94	8270
2-Chloronaphthalene	20	UG/L	ND	01/21/94	8270
2-Nitroaniline	50	UG/L	ND	01/21/94	8270
Dimethyl phthalate	10	UG/L	ND	01/21/94	8270
Acenaphthylene	10	UG/L	ND	01/21/94	8270

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Chemron Sample #: 33585

SEMI-VOLATILES ANALYSIS REPORT

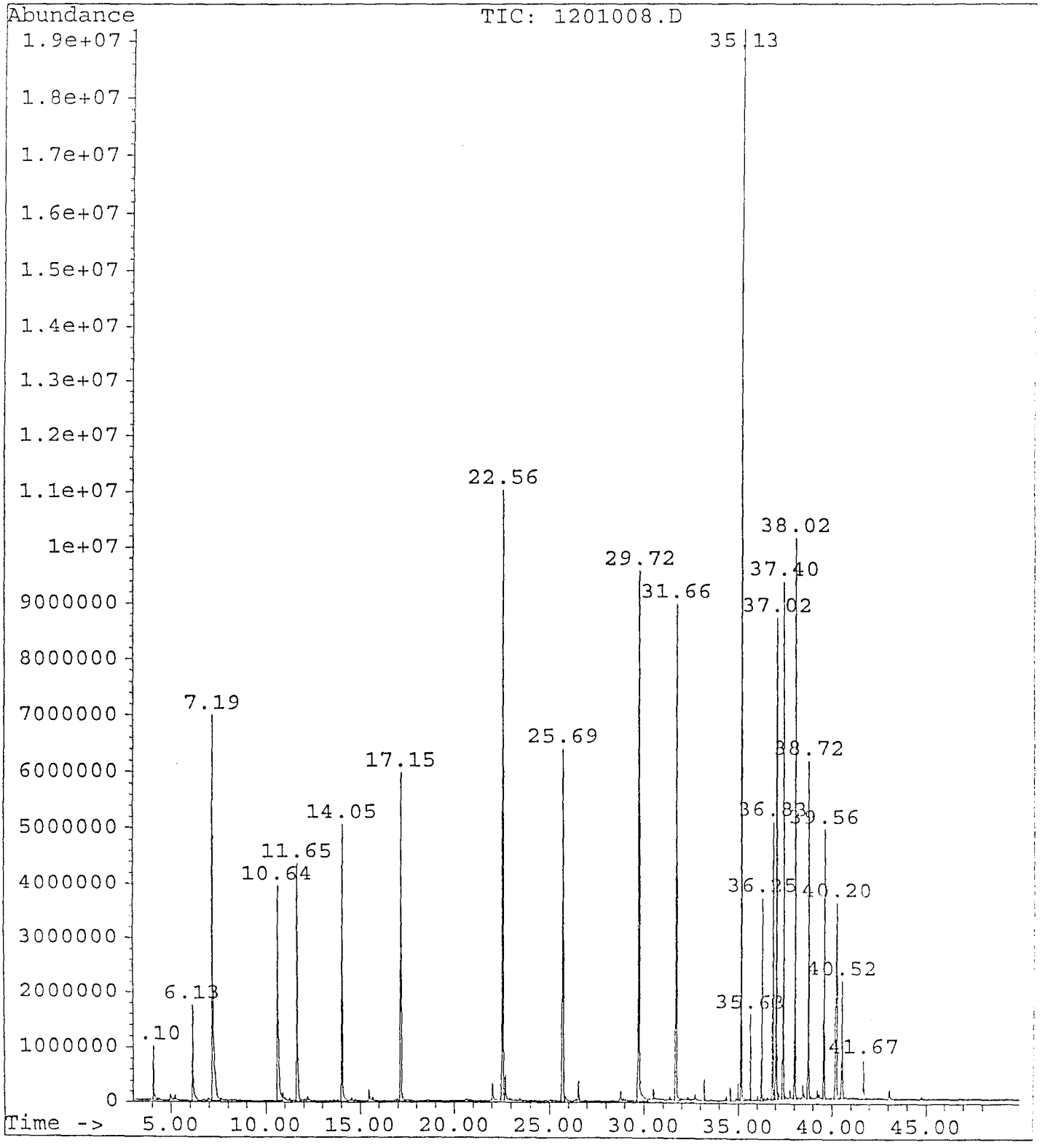
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	50	UG/L	ND	01/21/94	8270
Acenaphthene	10	UG/L	ND	01/21/94	8270
2,4-Dinitrophenol	50	UG/L	ND	01/21/94	8270
4-Nitrophenol	50	UG/L	ND	01/21/94	8270
Dibenzofuran	10	UG/L	ND	01/21/94	8270
2,4-Dinitrotoluene	10	UG/L	ND	01/21/94	8270
2,6-Dinitrotoluene	10	UG/L	ND	01/21/94	8270
4-Chlorophenyl phenyl ether	10	UG/L	ND	01/21/94	8270
Fluorene	10	UG/L	ND	01/21/94	8270
4-Nitroaniline	50	UG/L	ND	01/21/94	8270
4,6-Dinitro-2-methylphenol	50	UG/L	ND	01/21/94	8270
N-Nitrosodiphenylamine	10	UG/L	ND	01/21/94	8270
4-Bromophenyl phenyl ether	10	UG/L	ND	01/21/94	8270
Hexachlorobenzene	10	UG/L	ND	01/21/94	8270
Pentachlorophenol	30	UG/L	ND	01/21/94	8270
Phenanthrene	10	UG/L	ND	01/21/94	8270
Anthracene	10	UG/L	ND	01/21/94	8270
Di-n-butylphthalate	10	UG/L	ND	01/21/94	8270
Fluoranthene	10	UG/L	ND	01/21/94	8270
Pyrene	10	UG/L	ND	01/21/94	8270
Butyl benzyl phthalate	10	UG/L	ND	01/21/94	8270
3,3'-Dichlorobenzidine	20	UG/L	ND	01/21/94	8270
Benzo(a)anthracene	10	UG/L	ND	01/21/94	8270
bis(2-ethylhexyl)phthalate	10	UG/L	ND	01/21/94	8270
Chrysene	10	UG/L	ND	01/21/94	8270
Di-n-octyl phthalate	10	UG/L	ND	01/21/94	8270
Benzo(b)fluoranthene	10	UG/L	ND	01/21/94	8270
Benzo(k)fluoranthene	10	UG/L	ND	01/21/94	8270
Benzo(a)pyrene	10	UG/L	ND	01/21/94	8270
Indeno(1,2,3-cd)pyrene	10	UG/L	ND	01/21/94	8270
Dibenz(a,h)anthracene	10	UG/L	ND	01/21/94	8270
Benzo(g,h,i)perylene	10	UG/L	ND	01/21/94	8270

ND - Not Detected

Approved By: R. McCall Cerr

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\1201008.D
Operator: Vergel C.
Date Acquired: 21 Jan 94 5:09 pm
Method File: 1118.M
Sample Name: 33585 optech
Misc Info: HP 5970II ex: 01/21/94 100/1mL BNA
ALS vial: 12



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 1201008.D
Sample Desc. 33585 optech
Misc. Info. HP 5970II ex: 01/21/94 100/1mL BNA

Date Analyzed: 21 Jan 94 5:09 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	42	3.630	N-Nitrosodimethylamine		0.09	< DL	0.04	
2	79	3.630	Pyridine		0.00	< DL	3.63	
3	42	5.762	N-Nitrosomethylethylamine		0.00	< DL	5.76	
4	112	7.234	2-Fluorophenol		64.86	94.45	0.05	
5	102	7.863	N-Nitrosodiethylamine		0.00	< DL	7.86	
6	93	10.479	Aniline		0.02	< DL	0.03	
7	99	10.725	Phenol d5		55.99	59.74	0.09	
8	94	10.762	Phenol		1.16	1.00	0.09	trace
9	93	10.876	Bis(2-chloroethyl)ether		0.02	< DL	0.02	
10	128	10.901	2-Chlorophenol		0.77	< DL	0.00	
11	146	11.405	1,3-Dichlorobenzene		0.00	< DL	11.40	
12	152	11.669	1,4-Dichlorobenzene d4		27.19	40.00	0.02	
13	146	11.745	1,4-Dichlorobenzene		0.60	< DL	0.03	
14	146	12.311	1,2-Dichlorobenzene		0.00	< DL	12.31	
15	108	12.500	Benzyl alcohol		0.00	< DL	12.50	
16	45	13.067	Bis(2-chloroisopropyl)ether		0.04	< DL	0.00	
17	108	13.140	2-Methylphenol		0.01	< DL	0.04	
18	105	13.521	Acetophenone		0.02	< DL	0.00	
19	117	13.672	Hexachloroethane		0.00	< DL	13.67	
20	70	13.729	N-Nitrosodi-n-propylamine		0.00	< DL	13.73	
21	108	13.893	4-Methylphenol	*	0.03	< DL	0.15	
22	82	14.126	Nitrobenzene d5		56.45	58.50	0.08	
23	77	14.189	Nitrobenzene		0.29	< DL	0.14	
24	82	15.335	Isophorone		0.04	< DL	0.03	
25	139	15.581	2-Nitrophenol		0.00	< DL	15.58	
26	122	16.148	2,4-Dimethylphenol		0.00	< DL	16.15	
27	93	16.526	Bis(2-chloroethoxy)methane		0.00	< DL	16.53	
28	162	16.784	2,4-Dichlorophenol		0.00	< DL	16.78	
29	180	16.999	1,2,4-Trichlorobenzene		0.32	< DL	0.01	
30	136	17.188	Napthalene d8		90.56	40.00	0.03	
31	128	17.283	Naphthalene		0.30	< DL	0.03	
32	122	17.293	Benzoic acid		0.01	< DL	0.14	
33	58	17.776	a-,a-Dimethylphenethylamine		0.01	< DL	0.00	
34	162	17.776	2,6-Dichlorophenol		0.00	< DL	17.78	
35	127	17.814	4-Chloroaniline		0.00	< DL	17.81	
36	225	18.022	Hexachlorobutadiene		0.00	< DL	18.02	
37	84	19.625	N-Nitrosodi-n-butylamine		0.01	< DL	0.18	
38	107	20.435	4-Chloro-3-methylphenol		0.25	< DL	0.16	
39	115	20.643	2-Methylnaphthalene		0.00	< DL	20.64	
40	237	21.435	Hexachlorocyclopentadiene		0.00	< DL	21.44	
41	216	21.454	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.45	
42	196	22.192	2,4,6-Trichlorophenol		0.00	< DL	22.19	
43	196	22.362	2,4,5-Trichlorophenol		0.00	< DL	22.36	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.609	2-Fluorobiphenyl	135.39	89.94	0.03	
45	162	22.950	2-Chloronaphthalene	0.00	< DL	22.95	
46	65	23.703	2-Nitroaniline	0.00	< DL	23.70	
47	163	24.889	Dimethylphthalate	0.01	< DL	0.09	
48	152	24.926	Acenaphthylene	0.00	< DL	24.93	
49	165	25.059	2,6-Dinitrotoluene	0.07	< DL	0.03	
50	164	25.720	Acenaphthene d10	53.70	40.00	0.03	
51	138	25.890	3-Nitroaniline	0.00	< DL	25.89	
52	154	25.928	Acenaphthene	0.47	< DL	0.07	
53	184	26.693	2,4-Dinitrophenol	0.00	< DL	26.69	
54	250	26.760	Pentachlorobenzene	0.00	< DL	26.76	
55	168	27.063	Dibenzofuran	0.00	< DL	27.06	
56	165	27.479	2,4-Dinitrotoluene	0.00	< DL	27.48	
57	143	27.612	1-Naphthylamine	0.00	< DL	27.61	
58	139	27.719	4-Nitrophenol	0.00	< DL	27.72	
59	232	27.972	2,3,4,6-Tetrachlorophenol	0.00	< DL	27.97	
60	143	28.086	2-Naphthylamine	0.00	< DL	28.09	
61	166	28.806	Fluorene	0.00	< DL	28.81	
62	149	28.888	Diethylphthalate	0.42	< DL	0.09	
63	204	28.996	4-Chorophenylphenyl ether	0.00	< DL	29.00	
64	138	29.204	4-Nitroaniline	0.00	< DL	29.20	
65	198	29.318	4,6-Dinitro-2-methylphenol	0.12	< DL	0.40	
66	169	29.546	N-Nitroso-di-n-phenylamine **	1.49	1.23	0.16	trace
67	77	29.590	1,2-Diphenylhydrazine/Azobenze	0.31	< DL	0.11	
68	330	29.773	2,4,6-Tribromophenol	28.58	116.71	0.05	
69	248	30.607	4-Bromophenylphenylether	0.00	< DL	30.61	
70	284	30.646	Hexachlorobenzene	0.00	< DL	30.65	
71	108	30.722	Phenacetin	0.01	< DL	0.06	
72	295	31.290	Pentachloronitrobenzene	0.00	< DL	31.29	
73	266	31.328	Pentachlorophenol	0.00	< DL	31.33	
74	169	31.366	4-Aminobiphenyl	0.01	< DL	0.00	
75	188	31.708	Phenanthrene d10	85.11	40.00	0.04	
76	178	31.765	Phenanthrene	0.08	< DL	0.08	
77	178	31.765	Anthracene	0.08	< DL	0.08	
78	149	33.245	Di-n-butylphthalate	3.72	1.05	0.03	trace
79	202	34.363	Fluoranthene	0.03	< DL	0.21	
80	184	34.686	Benzidine	1.81	2.22	0.45	trace
81	202	34.800	Pyrene	0.07	< DL	0.00	
82	244	35.142	Terphenyl d14	140.01	85.97	0.01	
83	149	36.053	Butylbenzylphthalate	0.43	< DL	0.01	
84	252	36.985	3,3-Dichlorobenzidine	0.06	< DL	0.15	
85	228	37.020	Benzo(a)anthracene	0.20	< DL	0.00	
86	240	37.042	Chrysene d12	57.75	40.00	0.02	
87	149	37.080	Bis(2-ethylhexyl)phthalate	1.02	< DL	0.02	
88	228	37.100	Chrysene	0.20	< DL	0.08	
89	149	38.316	Di-n-octylphthalate	0.19	< DL	0.08	
90	252	39.247	Benzo(b)fluoranthene	0.06	< DL	0.31	
91	252	39.320	Benzo(k)fluoranthene	0.06	< DL	0.24	
92	252	40.077	Benzo(a)pyrene	0.18	< DL	0.14	
93	264	40.216	Perylene d12	38.66	40.00	0.00	
94	268	41.071	3-Methylcholanthrene	0.01	< DL	0.34	
95	276	43.843	Indeno(1,2,3-cd)pyrene	0.00	< DL	43.84	
96	278	43.912	Dibenz(a,h)anthracene	0.00	< DL	43.91	
97	276	44.936	Benzo(g,h,i)perylene	0.00	< DL	44.94	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

1201008.D

Chemron Inc
QC Summary Report

Data File 1201008.D
Sample Desc. 33585 optech
Misc. Info. HP 5970II ex: 01/21/94 100/1mL BNA

Date Analyzed: 21 Jan 94 5:09 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.65	1,4-Dichlorobenzene d4	40.00	Pass	30.56	27.19
2	17.15	Napthalene d8	40.00	Pass	103.30	90.56
3	25.69	Acenaphthene d10	40.00	Pass	61.78	53.70
4	31.66	Phenanthrene d10	40.00	Pass	90.44	85.11
5	37.02	Chrysene d12	40.00	Pass	50.21	57.75
6	40.22	Perylene d12	40.00	Pass	26.97	38.66

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.19	2-Fluorophenol	200.00	Pass	94.45	47
10.64	Phenol d5	200.00	Pass	59.74	30
14.05	Nitrobenzene d5	100.00	Pass	58.50	59
22.58	2-Fluorobiphenyl	100.00	Pass	89.94	90
29.72	2,4,6-Tribromophenol	200.00	Pass	116.71	58
35.13	Terphenyl d14	100.00	Pass	85.97	86

1201008.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-812

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/24/94
Chemron Sample #: 33569
Sample Matrix: Water

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: EB-1

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	10	UG/L	ND	01/21/94	8270
bis(2-Chloroethyl)ether	10	UG/L	ND	01/21/94	8270
2-Chlorophenol	10	UG/L	ND	01/21/94	8270
1,3-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
1,4-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
Benzyl Alcohol	10	UG/L	ND	01/21/94	8270
1,2-Dichlorobenzene	10	UG/L	ND	01/21/94	8270
2-Methylphenol	10	UG/L	ND	01/21/94	8270
Bis(2-Chloroisopropyl)ether	10	UG/L	ND	01/21/94	8270
4-Methylphenol	10	UG/L	ND	01/21/94	8270
N-Nitros-Di-N-propylamine	20	UG/L	ND	01/21/94	8270
Hexachloroethane	10	UG/L	ND	01/21/94	8270
Nitrobenzene	10	UG/L	ND	01/21/94	8270
Isophorone	10	UG/L	ND	01/21/94	8270
2-Nitrophenol	10	UG/L	ND	01/21/94	8270
2,4-Dimethylphenol	10	UG/L	ND	01/21/94	8270
Benzoic Acid	50	UG/L	ND	01/21/94	8270
bis(2-Chloroethoxy)methane	10	UG/L	ND	01/21/94	8270
2,4-Dichlorophenol	10	UG/L	ND	01/21/94	8270
1,2,4-Trichlorobenzene	10	UG/L	ND	01/21/94	8270
Naphthalene	10	UG/L	ND	01/21/94	8270
4-Chloroaniline	10	UG/L	ND	01/21/94	8270
Hexachlorobutadiene	10	UG/L	ND	01/21/94	8270
4-Chloro-3-methylphenol	10	UG/L	ND	01/21/94	8270
2-Methylnaphthalene	20	UG/L	ND	01/21/94	8270
Hexachlorocyclopentadiene	10	UG/L	ND	01/21/94	8270
2,4,6-Trichlorophenol	10	UG/L	ND	01/21/94	8270
2,4,5-Trichlorophenol	50	UG/L	ND	01/21/94	8270
2-Chloronaphthalene	20	UG/L	ND	01/21/94	8270
2-Nitroaniline	50	UG/L	ND	01/21/94	8270
Dimethyl phthalate	10	UG/L	ND	01/21/94	8270
Acenaphthylene	10	UG/L	ND	01/21/94	8270

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33569

SEMI-VOLATILES ANALYSIS REPORT

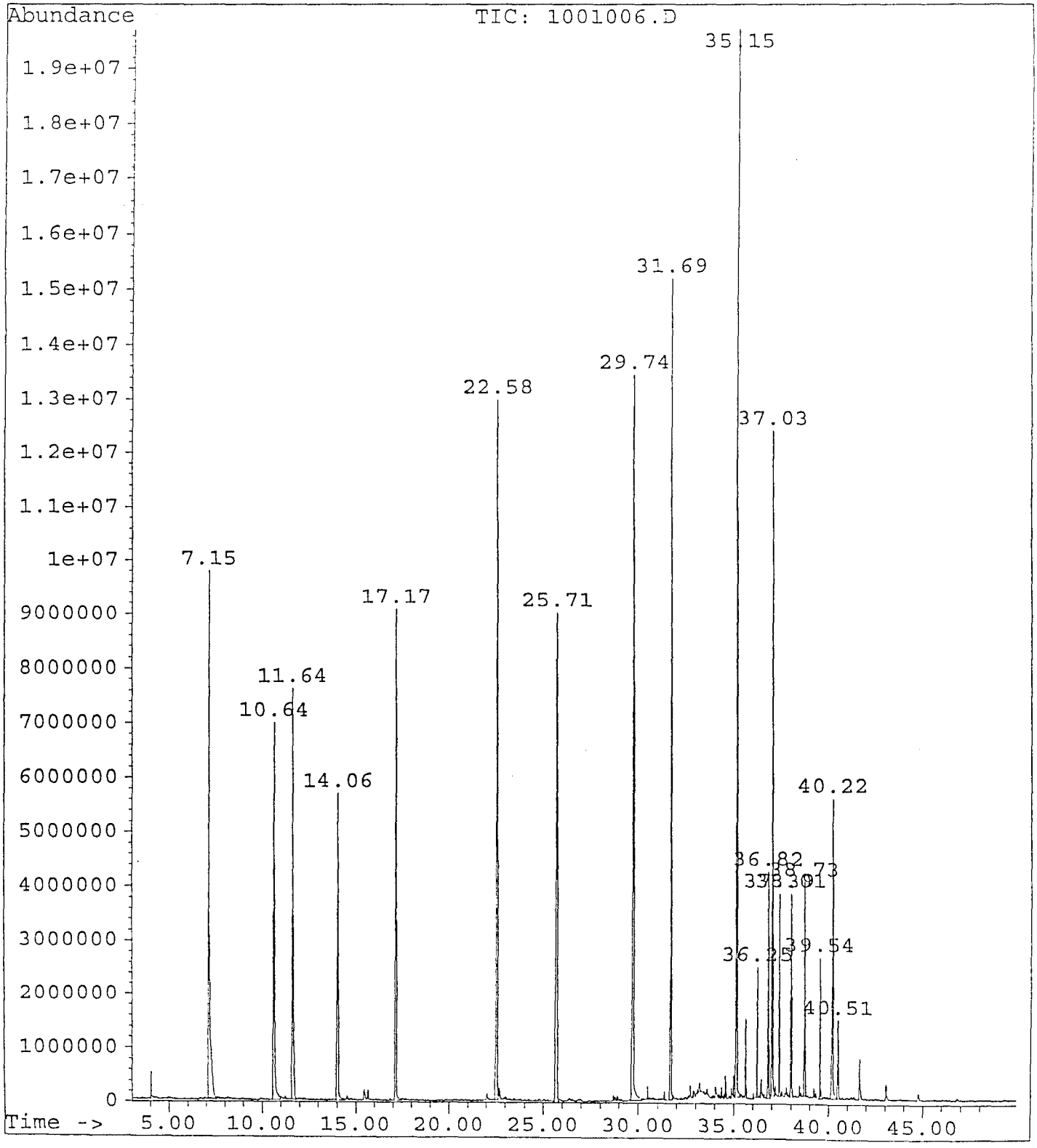
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	50	UG/L	ND	01/21/94	8270
Acenaphthene	10	UG/L	ND	01/21/94	8270
2,4-Dinitrophenol	50	UG/L	ND	01/21/94	8270
4-Nitrophenol	50	UG/L	ND	01/21/94	8270
Dibenzofuran	10	UG/L	ND	01/21/94	8270
2,4-Dinitrotoluene	10	UG/L	ND	01/21/94	8270
2,6-Dinitrotoluene	10	UG/L	ND	01/21/94	8270
4-Chlorophenyl phenyl ether	10	UG/L	ND	01/21/94	8270
Fluorene	10	UG/L	ND	01/21/94	8270
4-Nitroaniline	50	UG/L	ND	01/21/94	8270
4,6-Dinitro-2-methylphenol	50	UG/L	ND	01/21/94	8270
N-Nitrosodiphenylamine	10	UG/L	ND	01/21/94	8270
4-Bromophenyl phenyl ether	10	UG/L	ND	01/21/94	8270
Hexachlorobenzene	10	UG/L	ND	01/21/94	8270
Pentachlorophenol	30	UG/L	ND	01/21/94	8270
Phenanthrene	10	UG/L	ND	01/21/94	8270
Anthracene	10	UG/L	ND	01/21/94	8270
Di-n-butylphthalate	10	UG/L	ND	01/21/94	8270
Fluoranthene	10	UG/L	ND	01/21/94	8270
Pyrene	10	UG/L	ND	01/21/94	8270
Butyl benzyl phthalate	10	UG/L	ND	01/21/94	8270
3,3'-Dichlorobenzidine	20	UG/L	ND	01/21/94	8270
Benzo(a)anthracene	10	UG/L	ND	01/21/94	8270
bis(2-ethylhexyl)phthalate	10	UG/L	ND	01/21/94	8270
Chrysene	10	UG/L	ND	01/21/94	8270
Di-n-octyl phthalate	10	UG/L	ND	01/21/94	8270
Benzo(b)fluoranthene	10	UG/L	ND	01/21/94	8270
Benzo(k)fluoranthene	10	UG/L	ND	01/21/94	8270
Benzo(a)pyrene	10	UG/L	ND	01/21/94	8270
Indeno(1,2,3-cd)pyrene	10	UG/L	ND	01/21/94	8270
Dibenz(a,h)anthracene	10	UG/L	ND	01/21/94	8270
Benzo(g,h,i)perylene	10	UG/L	ND	01/21/94	8270

ND - Not Detected

Approved By: R. Ackman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\1001006.D
Operator: Vergel C.
Date Acquired: 21 Jan 94 3:06 pm
Method File: 1118.M
Sample Name: ~~33469~~ re 33569 optech
Misc Info: HP 5970II ex: 01/20/94 500/.5mL BNA
ALS vial: 10



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 1001006.D
Sample Desc. 33469 Mtech 32569
Misc. Info. HP 5970II ex: 01/20/94 500/.5mL BNA

Date Analyzed: 21 Jan 94 3:06 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	42	3.630	N-Nitrosodimethylamine		0.09	< DL	0.08	
2	79	3.630	Pyridine		0.00	< DL	3.63	
3	42	5.762	N-Nitrosomethylethylamine		0.01	< DL	0.04	
4	112	7.234	2-Fluorophenol		107.92	88.43	0.08	
5	102	7.863	N-Nitrosodiethylamine		0.00	< DL	7.86	
6	93	10.479	Aniline		0.03	< DL	0.04	
7	99	10.725	Phenol d5		115.79	69.53	0.08	
8	94	10.762	Phenol		0.32	< DL	0.10	
9	93	10.876	Bis(2-chloroethyl)ether		0.01	< DL	0.18	
10	128	10.901	2-Chlorophenol		0.25	< DL	0.01	
11	146	11.405	1,3-Dichlorobenzene		0.00	< DL	11.40	
12	152	11.669	1,4-Dichlorobenzene d4		48.32	40.00	0.03	
13	146	11.745	1,4-Dichlorobenzene		0.41	< DL	0.05	
14	146	12.311	1,2-Dichlorobenzene		0.00	< DL	12.31	
15	108	12.500	Benzyl alcohol		0.01	< DL	0.14	
16	45	13.067	Bis(2-chloroisopropyl)ether		0.04	< DL	0.03	
17	108	13.140	2-Methylphenol		0.00	< DL	13.14	
18	105	13.521	Acetophenone		0.04	< DL	0.01	
19	117	13.672	Hexachloroethane		0.00	< DL	13.67	
20	70	13.729	N-Nitrosodi-n-propylamine		0.00	< DL	13.73	
21	108	13.893	4-Methylphenol	*	0.02	< DL	0.18	
22	82	14.126	Nitrobenzene d5		72.75	42.37	0.07	
23	77	14.189	Nitrobenzene		0.37	< DL	0.13	
24	82	15.335	Isophorone		0.03	< DL	0.00	
25	139	15.581	2-Nitrophenol		0.00	< DL	15.58	
26	122	16.148	2,4-Dimethylphenol		0.02	< DL	0.09	
27	93	16.526	Bis(2-chloroethoxy)methane		0.01	< DL	0.19	
28	162	16.784	2,4-Dichlorophenol		0.00	< DL	16.78	
29	180	16.999	1,2,4-Trichlorobenzene		0.05	< DL	0.02	
30	136	17.188	Napthalene d8		161.15	40.00	0.02	
31	128	17.283	Naphthalene		0.22	< DL	0.04	
32	122	17.293	Benzoic acid		0.05	< DL	0.13	
33	58	17.776	a-,a-Dimethylphenethylamine		0.03	< DL	0.01	
34	162	17.776	2,6-Dichlorophenol		0.00	< DL	17.78	
35	127	17.814	4-Chloroaniline		0.01	< DL	0.15	
36	225	18.022	Hexachlorobutadiene		0.00	< DL	18.02	
37	84	19.625	N-Nitrosodi-n-butylamine		0.02	< DL	0.03	
38	107	20.435	4-Chloro-3-methylphenol		0.05	< DL	0.18	
39	115	20.643	2-Methylnaphthalene		0.01	< DL	0.03	
40	237	21.435	Hexachlorocyclopentadiene		0.00	< DL	21.44	
41	216	21.454	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.45	
42	196	22.192	2,4,6-Trichlorophenol		0.00	< DL	22.19	
43	196	22.362	2,4,5-Trichlorophenol		0.00	< DL	22.36	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.609	2-Fluorobiphenyl	170.04	63.05	0.03	
45	162	22.950	2-Chloronaphthalene	0.03	< DL	0.09	
46	65	23.703	2-Nitroaniline	0.02	< DL	0.18	
47	163	24.889	Dimethylphthalate	0.06	< DL	0.09	
48	152	24.926	Acenaphthylene	0.00	< DL	24.93	
49	165	25.059	2,6-Dinitrotoluene	0.05	< DL	0.01	
50	164	25.720	Acenaphthene d10	96.21	40.00	0.01	
51	138	25.890	3-Nitroaniline	0.00	< DL	25.89	
52	154	25.928	Acenaphthene	0.10	< DL	0.07	
53	184	26.693	2,4-Dinitrophenol	0.00	< DL	26.69	
54	250	26.760	Pentachlorobenzene	0.00	< DL	26.76	
55	168	27.063	Dibenzofuran	0.00	< DL	27.06	
56	165	27.479	2,4-Dinitrotoluene	0.00	< DL	27.48	
57	143	27.612	1-Naphthylamine	0.00	< DL	27.61	
58	139	27.719	4-Nitrophenol	0.00	< DL	27.72	
59	232	27.972	2,3,4,6-Tetrachlorophenol	0.00	< DL	27.97	
60	143	28.086	2-Naphthylamine	0.00	< DL	28.09	
61	166	28.806	Fluorene	0.00	< DL	28.81	
62	149	28.888	Diethylphthalate	0.21	< DL	0.09	
63	204	28.996	4-Chorophenylphenyl ether	0.00	< DL	29.00	
64	138	29.204	4-Nitroaniline	0.00	< DL	29.20	
65	198	29.318	4,6-Dinitro-2-methylphenol	0.22	< DL	0.40	
66	169	29.546	N-Nitroso-di-n-phenylamine **	2.36	1.24	0.20	trace
67	77	29.590	1,2-Diphenylhydrazine/Azobenze	0.48	< DL	0.13	
68	330	29.773	2,4,6-Tribromophenol	57.07	130.09	0.03	
69	248	30.607	4-Bromophenylphenylether	0.00	< DL	30.61	
70	284	30.646	Hexachlorobenzene	0.00	< DL	30.65	
71	108	30.722	Phenacetin	0.01	< DL	0.00	
72	295	31.290	Pentachloronitrobenzene	0.00	< DL	31.29	
73	266	31.328	Pentachlorophenol	0.00	< DL	31.33	
74	169	31.366	4-Aminobiphenyl	0.18	< DL	0.32	
75	188	31.708	Phenanthrene d10	133.35	40.00	0.02	
76	178	31.765	Phenanthrene	0.61	< DL	0.04	
77	178	31.765	Anthracene	0.61	< DL	0.04	
78	149	33.245	Di-n-butylphthalate	2.18	< DL	0.03	
79	202	34.363	Fluoranthene	0.17	< DL	0.01	
80	184	34.686	Benzidine	2.67	2.26	0.46	trace
81	202	34.800	Pyrene	0.40	< DL	0.03	
82	244	35.142	Terphenyl d14	194.13	82.49	0.01	
83	149	36.053	Butylbenzylphthalate	0.54	< DL	0.01	
84	252	36.985	3,3-Dichlorobenzidine	0.04	< DL	0.15	
85	228	37.020	Benzo(a)anthracene	0.61	< DL	0.02	
86	240	37.042	Chrysene d12	83.44	40.00	0.02	
87	149	37.080	Bis(2-ethylhexyl)phthalate	0.43	< DL	0.04	
88	228	37.100	Chrysene	0.61	< DL	0.06	
89	149	38.316	Di-n-octylphthalate	0.27	< DL	0.10	
90	252	39.247	Benzo(b)fluoranthene	0.05	< DL	0.03	
91	252	39.320	Benzo(k)fluoranthene	0.05	< DL	0.10	
92	252	40.077	Benzo(a)pyrene	0.29	< DL	0.15	
93	264	40.216	Perylene d12	58.73	40.00	0.01	
94	268	41.071	3-Methylcholanthrene	0.01	< DL	0.32	
95	276	43.843	Indeno(1,2,3-cd)pyrene	0.00	< DL	43.84	
96	278	43.912	Dibenz(a,h)anthracene	0.00	< DL	43.91	
97	276	44.936	Benzo(g,h,i)perylene	0.00	< DL	44.94	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

1001006.D

Chemron Inc
QC Summary Report

Data File 1001006.D
Sample Desc. 33469 Uptech 3/5/9
Misc. Info. HP 5970II ex: 01/20/94 500/.5mL BNA

Date Analyzed: 21 Jan 94 3:06 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.64	1,4-Dichlorobenzene d4	40.00	Pass	30.56	48.32
2	17.17	Napthalene d8	40.00	Pass	103.30	161.15
3	25.71	Acenaphthene d10	40.00	Pass	61.78	96.21
4	31.69	Phenanthrene d10	40.00	Pass	90.44	133.35
5	37.03	Chrysene d12	40.00	Pass	50.21	83.44
6	40.22	Perylene d12	40.00	Fail	26.97	58.73 *

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.15	2-Fluorophenol	200.00	Pass	88.43	44
10.64	Phenol d5	200.00	Pass	69.53	35
14.06	Nitrobenzene d5	100.00	Pass	42.37	42
22.58	2-Fluorobiphenyl	100.00	Pass	63.05	63
29.74	2,4,6-Tribromophenol	200.00	Pass	130.09	65
35.15	Terphenyl d14	100.00	Pass	82.49	82

Note: Actual value should be 1/2 of 58.73 due to final volume of the extract and 10 uL Int. Std. added.

1001006.D

3C

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMRON, INC. Contract: OPTECH

Lab Code: CHMRON Case No.: _____ SAS No.: _____ SDG No.: 33579

Matrix Spike - EPA Sample No.: 33588 - [illegible]

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC. LIMITS REC.
Phenol	200	0	79	40		5-112
2-Chlorophenol	200	0	77	39		23-134
1,4-Dichlorobenzene	100	0	31	31		20-124
N-Nitroso-di-n-prop.(	100	0	41	41		10-230
1,2,4-Trichlorobenzen	100	0	74	74		44-142
4-Chloro-3-methylphen	200	0	90	45		22-147
Acenaphthene	100	0	52	52		47-145
4-Nitrophenol	200	0	201	101		10-132
2,4-Dinitrotoluene	100	0	56	56		39-139
Pentachlorophenol	200	0	76	38		14-176
Pyrene	100	0	79	79		52-115

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	REC.
Phenol	200	80	40		0		35	5-112
2-Chlorophenol	200	83	42		7		50	23-134
1,4-Dichlorobenzene	100	35	35		12		27	20-124
N-Nitroso-di-n-prop.(	100	46	46		11		38	10-230
1,2,4-Trichlorobenzen	100	81	81		9		23	44-142
4-Chloro-3-methylphen	200	98	49		9		33	22-147
Acenaphthene	100	48	48		8		19	47-145
4-Nitrophenol	200	220	110		9		50	10-132
2,4-Dinitrotoluene	100	60	60		7		47	39-139
Pentachlorophenol	200	68	34		11		47	14-176
Pyrene	100	80	80		1		36	52-115

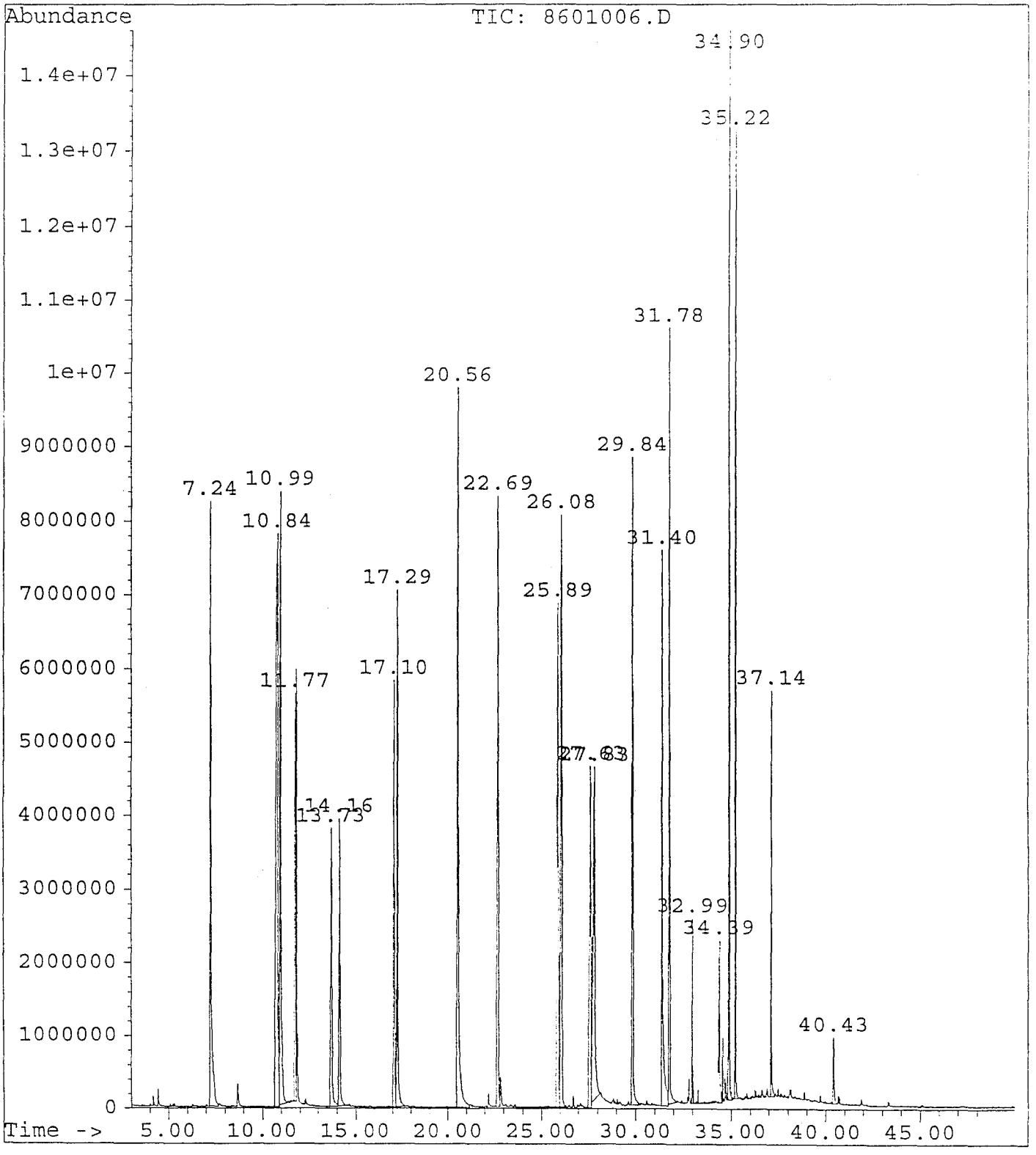
(1) N-Nitroso-di-n-propylamine

\# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

File: C:\CHEMPC\DATA\8601006.D
Operator: Vergel C.
Date Acquired: 27 Jan 94 2:53 pm
Method File: 1118.M
Sample Name: 33588MS OPTECH, INC.
Misc Info: HP 5970II ex: 01/27/94 30g/1mL BNA
ALS vial: 86



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 8601006.D
Sample Desc. 33588MS OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 2:53 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.02	< DL	0.00	
3	42	5.880	N-Nitrosomethylethylamine		0.04	< DL	0.03	
4	112	7.383	2-Fluorophenol		88.57	90.52	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.00	< DL	10.59	
7	99	10.867	Phenol d5		120.30	90.10	0.10	
8	94	10.899	Phenol		130.06	79.20	0.06	
9	93	11.006	Bis(2-chloroethyl)ether		2.18	1.62	0.01	trace
10	128	11.018	2-Chlorophenol		100.28	77.11	0.03	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		38.74	40.00	0.00	
13	146	11.837	1,4-Dichlorobenzene		51.84	31.35	0.02	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.01	< DL	0.00	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.04	< DL	0.00	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.01	< DL	0.11	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		40.54	41.45	0.17	
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		53.89	38.01	0.10	
23	77	14.332	Nitrobenzene		0.02	< DL	0.02	
24	82	15.484	Isophorone		0.04	< DL	0.01	
25	139	15.692	2-Nitrophenol		0.03	< DL	0.03	
26	122	16.278	2,4-Dimethylphenol		0.00	< DL	16.28	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.28	
28	162	16.902	2,4-Dichlorophenol		0.28	< DL	0.21	
29	180	17.110	1,2,4-Trichlorobenzene		49.17	74.36	0.01	
30	136	17.300	Napthalene d8		133.05	40.00	0.01	
31	128	17.414	Naphthalene		0.13	< DL	0.05	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.01	< DL	0.34	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.05	< DL	0.23	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.39	
38	107	20.573	4-Chloro-3-methylphenol		102.29	90.13	0.01	
39	115	20.763	2-Methylnaphthalene		1.24	1.75	0.20	trace
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	104.73	47.49	0.06	
45	162	23.093	2-Chloronaphthalene	0.00	< DL	23.09	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.03	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.04	< DL	0.03	
49	165	25.268	2,6-Dinitrotoluene	0.00	< DL	25.27	
50	164	25.898	Acenaphthene d10	78.67	40.00	0.01	
51	154	26.119	Acenaphthene	107.01	52.07	0.04	
52	138	26.138	3-Nitroaniline	0.11	< DL	0.06	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.22	< DL	0.06	
56	165	27.710	2,4-Dinitrotoluene	60.60	56.27	0.06	
57	143	27.792	1-Naphthylamine	0.03	< DL	0.00	
58	139	27.849	4-Nitrophenol	82.34	201.27	0.01	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.40	< DL	0.07	
60	143	28.261	2-Naphthylamine	0.08	< DL	0.08	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.13	< DL	0.11	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.12	< DL	0.33	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.53	1.12	0.17	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.04	< DL	0.09	
68	330	29.900	2,4,6-Tribromophenol	38.99	108.71	0.05	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.01	< DL	0.03	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	29.33	75.53	0.03	
74	169	31.472	4-Aminobiphenyl	5.37	4.04	0.07	trace
75	188	31.795	Phenanthrene d10	95.96	40.00	0.01	
76	178	31.871	Phenanthrene	0.12	< DL	0.03	
77	178	31.871	Anthracene	0.12	< DL	0.03	
78	149	33.316	Di-n-butylphthalate	1.82	< DL	0.02	
79	202	34.450	Fluoranthene	0.00	< DL	34.45	
80	184	34.799	Benzidine	0.24	< DL	0.05	
81	202	34.894	Pyrene	157.55	78.92	0.01	
82	244	35.224	Terphenyl d14	137.19	129.77	0.02	
83	149	36.132	Butylbenzylphthalate	0.15	< DL	0.00	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.14	< DL	0.04	
86	149	37.142	Bis(2-ethylhexyl)phthalate	0.62	< DL	0.01	
87	240	37.142	Chrysene d12	37.48	40.00	0.01	
88	228	37.180	Chrysene	0.14	< DL	0.04	
89	149	38.418	Di-n-octylphthalate	0.12	< DL	0.07	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.05	< DL	0.17	
93	264	40.378	Perylene d12	10.47	40.00	0.05	
94	268	41.251	3-Methylcholanthrene	0.01	< DL	0.03	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

8601006.D

Chemron Inc
QC Summary Report

Data File 8601006.D
Sample Desc. 33588MS OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

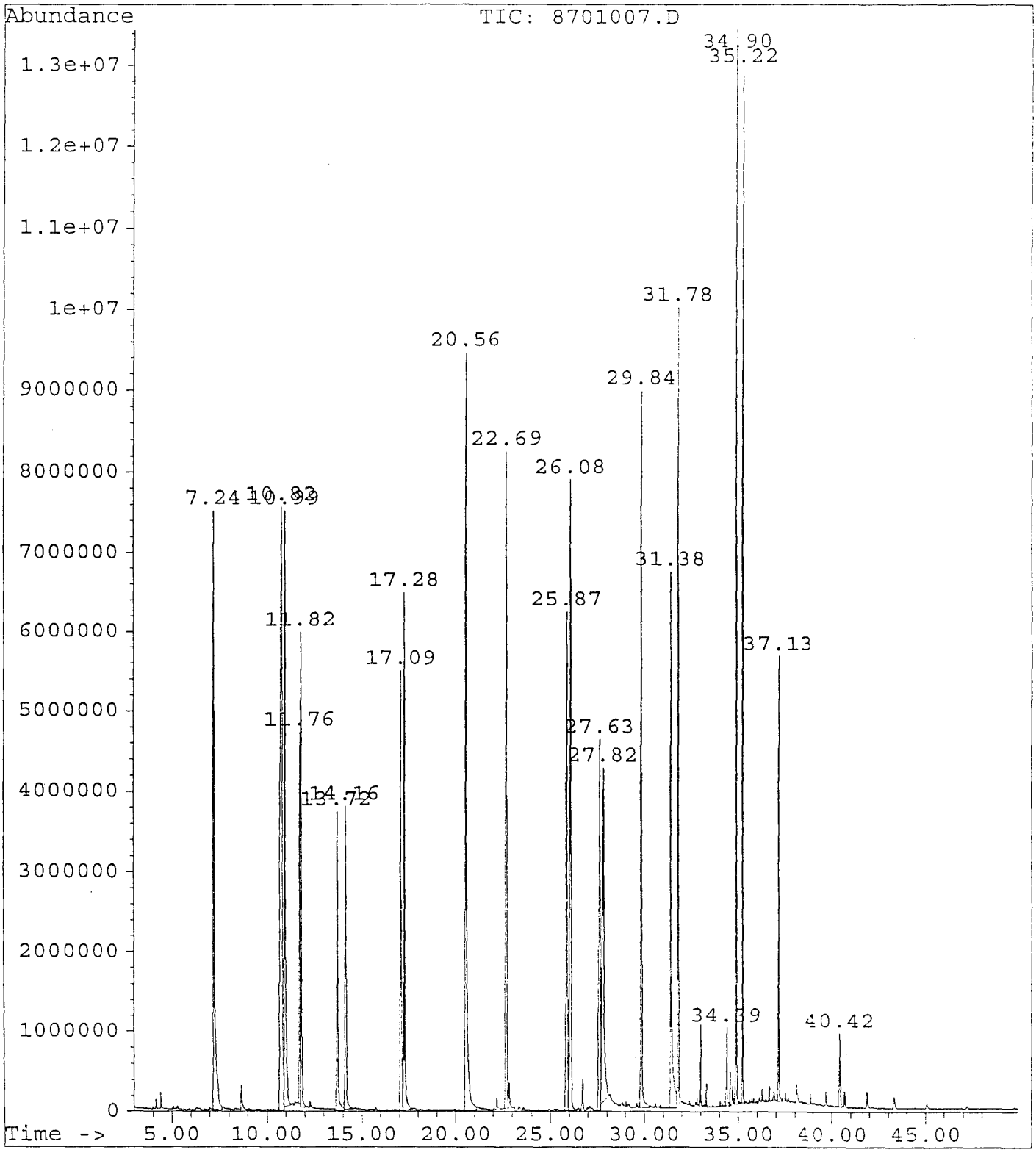
Date Analyzed: 27 Jan 94 2:53 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.77	1,4-Dichlorobenzene d4	40.00	Pass	28.82	38.74
2	17.29	Napthalene d8	40.00	Pass	101.13	133.05
3	25.89	Acenaphthene d10	40.00	Pass	56.40	78.67
4	31.78	Phenanthrene d10	40.00	Pass	72.85	95.96
5	37.14	Chrysene d12	40.00	Pass	27.80	37.48
6	40.43	Perylene d12	40.00	Pass	8.36	10.47

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.24	2-Fluorophenol	200.00	Pass	90.52	45
10.77	Phenol d5	200.00	Pass	90.10	45
14.16	Nitrobenzene d5	100.00	Pass	38.01	38
22.69	2-Fluorobiphenyl	100.00	Pass	47.49	47
29.85	2,4,6-Tribromophenol	200.00	Pass	108.71	54
35.24	Terphenyl d14	100.00	Pass	129.77	130

8601006.D

File: C:\CHEMPC\DATA\8701007.D
Operator: Vergel C.
Date Acquired: 27 Jan 94 3:53 pm
Method File: 1118.M
Sample Name: 33588MSD OPTECH, INC.
Misc Info: HP 5970II ex: 01/27/94 30g/1mL BNA
ALS vial: 87



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 8701007.D
Sample Desc. 33588MSD OPTECH, INC
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 3:53 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.03	< DL	0.10	
3	42	5.880	N-Nitrosomethylethylamine		0.04	< DL	0.01	
4	112	7.383	2-Fluorophenol		87.18	101.49	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.00	< DL	10.59	
7	99	10.867	Phenol d5		109.54	93.46	0.11	
8	94	10.899	Phenol		115.58	80.17	0.08	
9	93	11.006	Bis(2-chloroethyl)ether		1.98	1.68	0.02	trace
10	128	11.018	2-Chlorophenol		95.19	83.38	0.03	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		34.01	40.00	0.00	
13	146	11.837	1,4-Dichlorobenzene		50.50	34.79	0.02	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.11	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.01	< DL	0.12	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		39.21	45.67	0.17	
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		50.21	40.74	0.11	
23	77	14.332	Nitrobenzene		0.23	< DL	0.18	
24	82	15.484	Isophorone		0.03	< DL	0.03	
25	139	15.692	2-Nitrophenol		0.03	< DL	0.03	
26	122	16.278	2,4-Dimethylphenol		0.00	< DL	16.28	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.28	< DL	0.21	
29	180	17.110	1,2,4-Trichlorobenzene		46.58	81.02	0.02	
30	136	17.300	Napthalene d8		115.69	40.00	0.02	
31	128	17.414	Naphthalene		0.12	< DL	0.05	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.01	< DL	0.40	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.12	< DL	0.17	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.41	
38	107	20.573	4-Chloro-3-methylphenol		97.13	98.43	0.01	
39	115	20.763	2-Methylnaphthalene		1.19	1.92	0.20	trace
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	101.81	54.07	0.06	
45	162	23.093	2-Chloronaphthalene	0.00	< DL	23.09	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.16	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.04	< DL	0.03	
49	165	25.268	2,6-Dinitrotoluene	0.00	< DL	25.27	
50	164	25.898	Acenaphthene d10	67.16	40.00	0.03	
51	154	26.119	Acenaphthene	83.77	47.74	0.04	
52	138	26.138	3-Nitroaniline	0.09	< DL	0.06	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.21	< DL	0.06	
56	165	27.710	2,4-Dinitrotoluene	54.90	59.72	0.08	
57	143	27.792	1-Naphthylamine	0.01	< DL	0.03	
58	139	27.849	4-Nitrophenol	76.89	220.13	0.01	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.36	< DL	0.07	
60	143	28.261	2-Naphthylamine	0.01	< DL	0.07	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.14	< DL	0.11	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.11	< DL	0.33	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.41	1.17	0.17	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.27	< DL	0.12	
68	330	29.900	2,4,6-Tribromophenol	34.41	112.35	0.07	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.01	< DL	0.03	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	23.12	67.59	0.05	
74	169	31.472	4-Aminobiphenyl	4.56	3.90	0.09	trace
75	188	31.795	Phenanthrene d10	84.53	40.00	0.01	
76	178	31.871	Phenanthrene	0.11	< DL	0.05	
77	178	31.871	Anthracene	0.11	< DL	0.05	
78	149	33.316	Di-n-butylphthalate	2.69	< DL	0.02	
79	202	34.450	Fluoranthene	0.00	< DL	34.45	
80	184	34.799	Benzidine	1.46	2.90	0.42	trace
81	202	34.894	Pyrene	151.01	79.67	0.00	
82	244	35.224	Terphenyl d14	132.31	131.82	0.01	
83	149	36.132	Butylbenzylphthalate	0.20	< DL	0.00	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.14	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.13	< DL	0.01	
87	240	37.142	Chrysene d12	35.59	40.00	0.01	
88	228	37.180	Chrysene	0.14	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.17	< DL	0.06	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.04	< DL	0.18	
93	264	40.378	Perylene d12	10.37	40.00	0.06	
94	268	41.251	3-Methylcholanthrene	0.01	< DL	0.01	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

8701007.D

Chemron Inc
QC Summary Report

Data File 8701007.D
Sample Desc. 33588MSD OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 3:53 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.76	1,4-Dichlorobenzene d4	40.00	Pass	28.82	34.01
2	17.28	Napthalene d8	40.00	Pass	101.13	115.69
3	25.87	Acenaphthene d10	40.00	Pass	56.40	67.16
4	31.78	Phenanthrene d10	40.00	Pass	72.85	84.53
5	37.13	Chrysene d12	40.00	Pass	27.80	35.59
6	40.43	Perylene d12	40.00	Pass	8.36	10.37

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.24	2-Fluorophenol	200.00	Pass	101.49	51
10.76	Phenol d5	200.00	Pass	93.46	47
14.16	Nitrobenzene d5	100.00	Pass	40.74	41
22.69	2-Fluorobiphenyl	100.00	Pass	54.07	54
29.84	2,4,6-Tribromophenol	200.00	Pass	112.35	56
35.24	Terphenyl d14	100.00	Pass	131.82	132

8701007.D

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/27/94
Chemron Sample #: 33588
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-011BH 10-12

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/26/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/26/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/26/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/26/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/26/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/26/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/26/94	8270
Isophorone	0.33	MG/KG	ND	01/26/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/26/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/26/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/26/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/26/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Naphthalene	0.33	MG/KG	ND	01/26/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/26/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/26/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/26/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/26/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/26/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/26/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/26/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/26/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/26/94	8270

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33588

SEMI-VOLATILES ANALYSIS REPORT

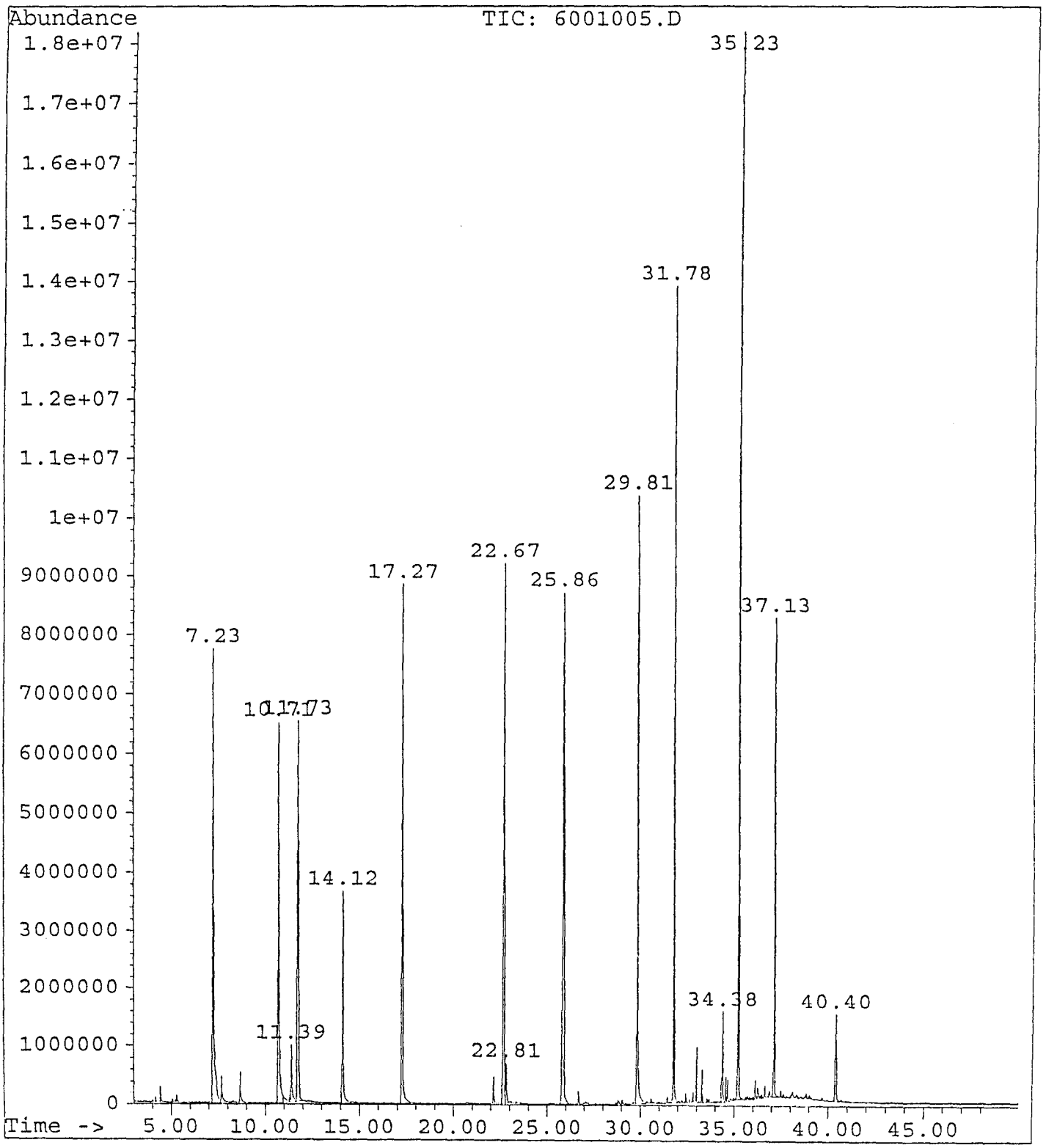
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Acenaphthene	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/26/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/26/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Fluorene	0.33	MG/KG	ND	01/26/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/26/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/26/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/26/94	8270
Phenanthrene	0.33	MG/KG	ND	01/26/94	8270
Anthracene	0.33	MG/KG	ND	01/26/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/26/94	8270
Fluoranthene	0.33	MG/KG	ND	01/26/94	8270
Pyrene	0.40	MG/KG	ND	01/26/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/26/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/26/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/26/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/26/94	8270
Chrysene	0.33	MG/KG	ND	01/26/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/26/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/26/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/26/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/26/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/26/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/26/94	8270

ND - Not Detected

Approved By: R. Williams

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\6001005.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 1:35 pm
Method File: 1118.M
Sample Name: 33588 OPTECH, INC.
Misc Info: HP 5970II ex: 01/21/94 30g/1mL BNA
ALS vial: 60



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 6001005.D
Sample Desc. 33588 OPTECH, INC.
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 1:35 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.01	< DL	0.10	
3	42	5.880	N-Nitrosomethylethylamine		0.01	< DL	0.14	
4	112	7.383	2-Fluorophenol		84.16	69.43	0.16	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.01	< DL	0.07	
7	99	10.867	Phenol d5		111.65	67.50	0.15	
8	94	10.899	Phenol		0.61	< DL	0.15	
9	93	11.006	Bis(2-chloroethyl)ether		0.02	< DL	0.05	
10	128	11.018	2-Chlorophenol		0.45	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		47.99	40.00	0.01	
13	146	11.837	1,4-Dichlorobenzene		0.23	< DL	0.03	
14	146	12.404	1,2-Dichlorobenzene		0.01	< DL	0.03	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.04	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.03	< DL	0.09	
19	117	13.765	Hexachloroethane		0.01	< DL	0.04	
20	70	13.897	N-Nitrosodi-n-propylamine		6.38	5.26	0.23	trace
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		49.14	27.48	0.14	
23	77	14.332	Nitrobenzene		0.23	< DL	0.19	
24	82	15.484	Isophorone		0.05	< DL	0.00	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.09	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.18	< DL	0.03	
30	136	17.300	Napthalene d8		167.85	40.00	0.03	
31	128	17.414	Naphthalene		0.08	< DL	0.07	
32	122	17.767	Benzoic acid		0.04	< DL	0.50	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.01	< DL	0.05	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.20	
38	107	20.573	4-Chloro-3-methylphenol		0.29	< DL	0.10	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	111.10	41.82	0.08	
45	162	23.093	2-Chloronaphthalene	0.02	< DL	0.10	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.48	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.02	< DL	0.11	
50	164	25.898	Acenaphthene d10	94.76	40.00	0.04	
51	154	26.119	Acenaphthene	0.25	< DL	0.11	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.01	< DL	0.12	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.11	< DL	0.17	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.13	< DL	0.31	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.62	< DL	0.15	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.30	< DL	0.10	
68	330	29.900	2,4,6-Tribromophenol	45.42	105.12	0.09	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.01	< DL	0.23	
74	169	31.472	4-Aminobiphenyl	0.09	< DL	0.07	
75	188	31.795	Phenanthrene d10	126.59	40.00	0.02	
76	178	31.871	Phenanthrene	0.09	< DL	0.10	
77	178	31.871	Anthracene	0.09	< DL	0.10	
78	149	33.316	Di-n-butylphthalate	5.83	1.11	0.03	trace
79	202	34.450	Fluoranthene	0.16	< DL	0.42	
80	184	34.799	Benzidine	2.11	2.55	0.43	trace
81	202	34.894	Pyrene	0.18	< DL	0.02	
82	244	35.224	Terphenyl d14	174.00	105.48	0.01	
83	149	36.132	Butylbenzylphthalate	1.34	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.19	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.66	< DL	0.00	
87	240	37.142	Chrysene d12	58.48	40.00	0.02	
88	228	37.180	Chrysene	0.19	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.61	< DL	0.08	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.08	< DL	0.16	
93	264	40.378	Perylene d12	19.55	40.00	0.02	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

6001005.D

Chemron Inc
QC Summary Report

Data File 6001005.D
Sample Desc. 33588 OPTECH, INC.
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 1:35 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	49.63	47.99
2	17.27	Napthalene d8	40.00	Pass	176.60	167.85
3	25.86	Acenaphthene d10	40.00	Pass	103.11	94.76
4	31.78	Phenanthrene d10	40.00	Pass	131.76	126.59
5	37.13	Chrysene d12	40.00	Pass	57.36	58.48
6	40.40	Perylene d12	40.00	Pass	19.82	19.55

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	69.43	35
10.71	Phenol d5	200.00	Pass	67.50	34
14.12	Nitrobenzene d5	100.00	Pass	27.48	27
22.67	2-Fluorobiphenyl	100.00	Pass	41.82	42
29.81	2,4,6-Tribromophenol	200.00	Pass	105.12	53
35.23	Terphenyl d14	100.00	Pass	105.48	105

6001005.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/27/94
Chemron Sample #: 33587
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-011BH 2-3

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/27/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/27/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/27/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/27/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/27/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/27/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/27/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/27/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/27/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/27/94	8270
Isophorone	0.33	MG/KG	ND	01/27/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/27/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/27/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/27/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/27/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/27/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/27/94	8270
Naphthalene	0.33	MG/KG	ND	01/27/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/27/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/27/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/27/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/27/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/27/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/27/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/27/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/27/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/27/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/27/94	8270

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33587

SEMI-VOLATILES ANALYSIS REPORT

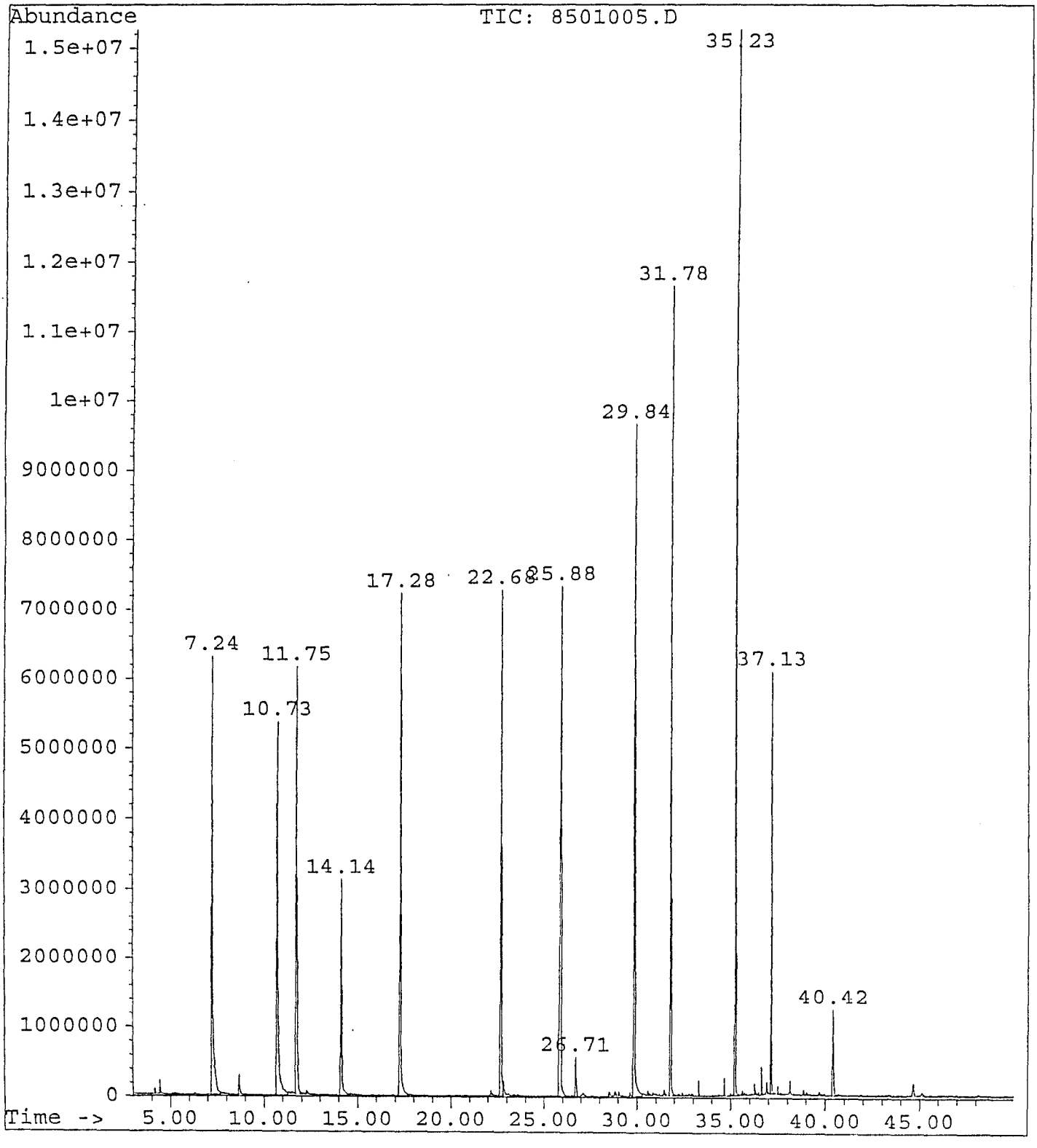
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
Acenaphthene	0.33	MG/KG	ND	01/27/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/27/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/27/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/27/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/27/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/27/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/27/94	8270
Fluorene	0.33	MG/KG	ND	01/27/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/27/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/27/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/27/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/27/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/27/94	8270
Phenanthrene	0.33	MG/KG	ND	01/27/94	8270
Anthracene	0.33	MG/KG	ND	01/27/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/27/94	8270
Fluoranthene	0.33	MG/KG	ND	01/27/94	8270
Pyrene	0.40	MG/KG	ND	01/27/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/27/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/27/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/27/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/27/94	8270
Chrysene	0.33	MG/KG	ND	01/27/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/27/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/27/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/27/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/27/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/27/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/27/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/27/94	8270

ND - Not Detected

Approved By: R. Richman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\8501005.D
Operator: Vergel C.
Date Acquired: 27 Jan 94 1:53 pm
Method File: 1118.M
Sample Name: 33587RE OPTECH, INC.
Misc Info: HP 5970II ex: 01/27/94 30g/1mL BNA
ALS vial: 85



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 8501005.D
Sample Desc. 33587RE OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 1:53 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.03	< DL	0.06	
3	42	5.880	N-Nitrosomethylethylamine		0.02	< DL	0.07	
4	112	7.383	2-Fluorophenol		72.16	69.90	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.07	
7	99	10.867	Phenol d5		96.93	68.81	0.14	
8	94	10.899	Phenol		0.33	< DL	0.13	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.22	
10	128	11.018	2-Chlorophenol		0.25	< DL	0.05	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		40.87	40.00	0.02	
13	146	11.837	1,4-Dichlorobenzene		0.09	< DL	0.04	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.01	< DL	0.11	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.00	< DL	13.69	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		5.33	5.17	0.24	trace
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		42.19	28.12	0.13	
23	77	14.332	Nitrobenzene		0.18	< DL	0.19	
24	82	15.484	Isophorone		0.08	< DL	0.07	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.00	< DL	16.28	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.11	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.06	< DL	0.02	
30	136	17.300	Napthalene d8		140.81	40.00	0.02	
31	128	17.414	Naphthalene		0.06	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.02	< DL	0.41	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.11	
38	107	20.573	4-Chloro-3-methylphenol		0.13	< DL	0.19	
39	115	20.763	2-Methylnaphthalene		0.01	< DL	0.02	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	90.17	39.60	0.07	
45	162	23.093	2-Chloronaphthalene	0.01	< DL	0.09	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.28	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.01	< DL	0.08	
50	164	25.898	Acenaphthene d10	81.24	40.00	0.02	
51	154	26.119	Acenaphthene	0.12	< DL	0.09	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.10	< DL	0.16	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.11	< DL	0.34	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.39	< DL	0.17	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.28	< DL	0.12	
68	330	29.900	2,4,6-Tribromophenol	36.05	97.32	0.06	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.01	< DL	0.03	
75	188	31.795	Phenanthrene d10	105.38	40.00	0.01	
76	178	31.871	Phenanthrene	0.07	< DL	0.09	
77	178	31.871	Anthracene	0.07	< DL	0.09	
78	149	33.316	Di-n-butylphthalate	2.76	< DL	0.03	
79	202	34.450	Fluoranthene	0.01	< DL	0.01	
80	184	34.799	Benzidine	1.46	2.59	0.43	trace
81	202	34.894	Pyrene	0.05	< DL	0.00	
82	244	35.224	Terphenyl d14	130.24	115.61	0.00	
83	149	36.132	Butylbenzylphthalate	0.10	< DL	0.00	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.17	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	0.97	< DL	0.01	
87	240	37.142	Chrysene d12	39.94	40.00	0.01	
88	228	37.180	Chrysene	0.17	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.03	< DL	0.00	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.06	< DL	0.18	
93	264	40.378	Perylene d12	14.72	40.00	0.04	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

8501005.D

Chemron Inc
QC Summary Report

Data File 8501005.D
Sample Desc. 33587RE OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 1:53 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area *(x100000)*	Sample Area *(x100000)*
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	28.82	40.87
2	17.28	Napthalene d8	40.00	Pass	101.13	140.81
3	25.88	Acenaphthene d10	40.00	Pass	56.40	81.24
4	31.78	Phenanthrene d10	40.00	Pass	72.85	105.38
5	37.13	Chrysene d12	40.00	Pass	27.80	39.94
6	40.42	Perylene d12	40.00	Pass	8.36	14.72

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.24	2-Fluorophenol	200.00	Pass	69.90	35
10.73	Phenol d5	200.00	Pass	68.81	34
14.14	Nitrobenzene d5	100.00	Pass	28.12	28
22.68	2-Fluorobiphenyl	100.00	Pass	39.60	40
29.84	2,4,6-Tribromophenol	200.00	Pass	97.32	49
35.23	Terphenyl d14	100.00	Pass	115.61	116

8501005.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/27/94
Chemron Sample #: 33584
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-010BH 9-10

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/27/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/27/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/27/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/27/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/27/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/27/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/27/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/27/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/27/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/27/94	8270
Isophorone	0.33	MG/KG	ND	01/27/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/27/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/27/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/27/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/27/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/27/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/27/94	8270
Naphthalene	0.33	MG/KG	ND	01/27/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/27/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/27/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/27/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/27/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/27/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/27/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/27/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/27/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/27/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/27/94	8270

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Chemron Sample #: 33584

SEMI-VOLATILES ANALYSIS REPORT

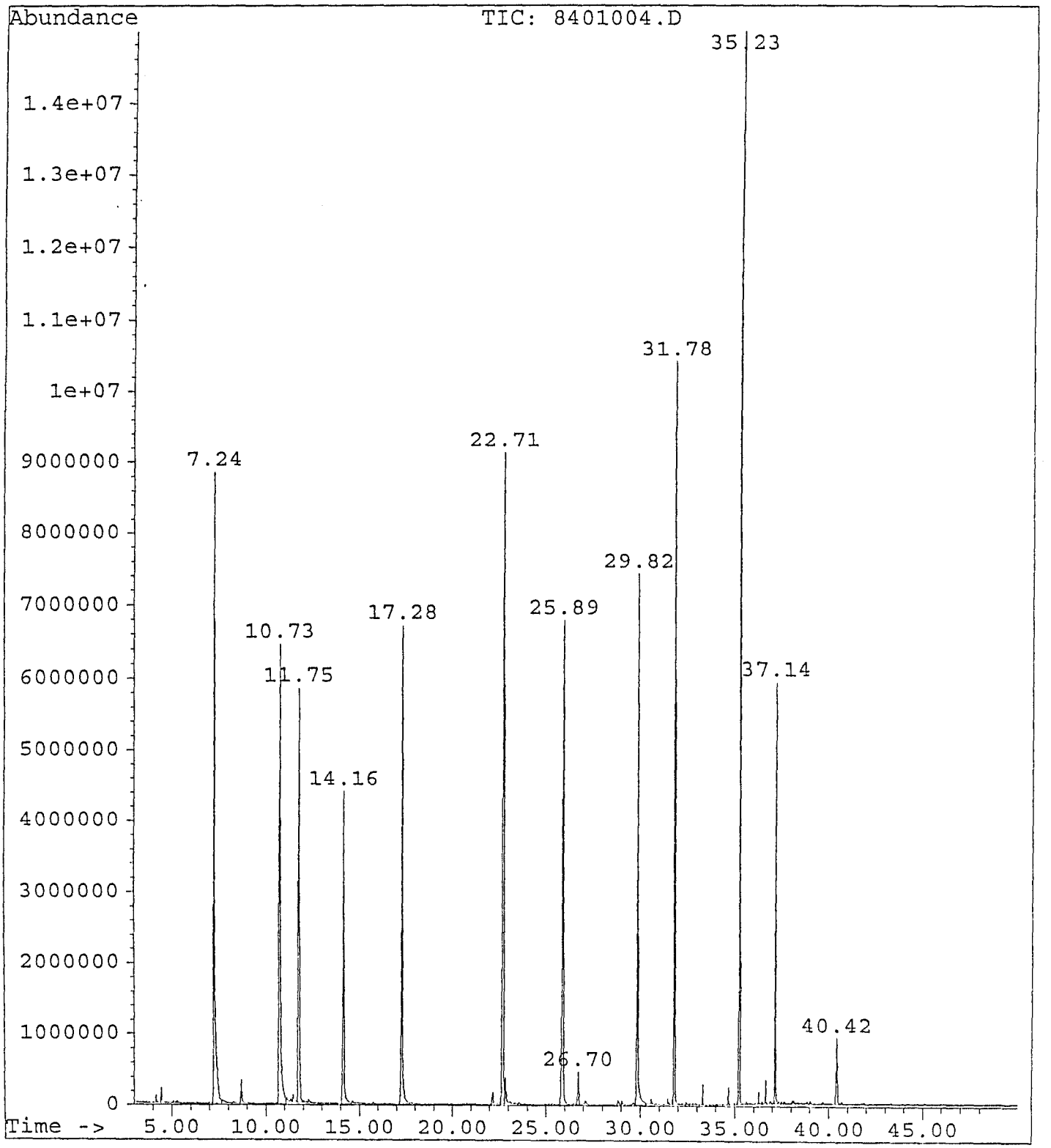
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
Acenaphthene	0.33	MG/KG	ND	01/27/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/27/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/27/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/27/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/27/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/27/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/27/94	8270
Fluorene	0.33	MG/KG	ND	01/27/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/27/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/27/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/27/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/27/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/27/94	8270
Phenanthrene	0.33	MG/KG	ND	01/27/94	8270
Anthracene	0.33	MG/KG	ND	01/27/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/27/94	8270
Fluoranthene	0.33	MG/KG	ND	01/27/94	8270
Pyrene	0.40	MG/KG	ND	01/27/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/27/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/27/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/27/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/27/94	8270
Chrysene	0.33	MG/KG	ND	01/27/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/27/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/27/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/27/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/27/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/27/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/27/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/27/94	8270

ND - Not Detected

Approved By: R. Duncan

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\8401004.D
Operator: Vergel C.
Date Acquired: 27 Jan 94 12:54 pm
Method File: 1118.M
Sample Name: 33584RE OPTECH, INC.
Misc Info: HP 5970II ex: 01/27/94 30g/1mL BNA
ALS vial: 84



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 8401004.D
Sample Desc. 33584RE OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 12:54 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.08	< DL	0.08	
3	42	5.880	N-Nitrosomethylethylamine		0.02	< DL	0.03	
4	112	7.383	2-Fluorophenol		99.33	100.79	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.05	
7	99	10.867	Phenol d5		132.06	98.20	0.14	
8	94	10.899	Phenol		0.24	< DL	0.13	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.03	
10	128	11.018	2-Chlorophenol		0.15	< DL	0.04	
11	146	11.497	1,3-Dichlorobenzene		0.01	< DL	0.27	
12	152	11.762	1,4-Dichlorobenzene d4		39.02	40.00	0.01	
13	146	11.837	1,4-Dichlorobenzene		0.01	< DL	0.03	
14	146	12.404	1,2-Dichlorobenzene		0.01	< DL	0.02	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.06	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.01	< DL	0.10	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		7.82	7.94	0.26	trace
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		60.66	43.04	0.10	
23	77	14.332	Nitrobenzene		0.24	< DL	0.17	
24	82	15.484	Isophorone		0.11	< DL	0.06	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.00	< DL	16.28	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.00	< DL	17.11	
30	136	17.300	Napthalene d8		132.29	40.00	0.02	
31	128	17.414	Naphthalene		0.10	< DL	0.05	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.01	< DL	0.28	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.18	
38	107	20.573	4-Chloro-3-methylphenol		0.00	< DL	20.57	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	119.24	56.09	0.05	
45	162	23.093	2-Chloronaphthalene	0.01	< DL	0.10	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.52	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.00	< DL	25.27	
50	164	25.898	Acenaphthene d10	75.84	40.00	0.03	
51	154	26.119	Acenaphthene	0.24	< DL	0.23	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.14	< DL	0.18	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.08	< DL	0.32	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.12	< DL	0.16	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.02	< DL	0.06	
68	330	29.900	2,4,6-Tribromophenol	23.70	68.54	0.08	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.07	< DL	0.06	
75	188	31.795	Phenanthrene d10	99.07	40.00	0.01	
76	178	31.871	Phenanthrene	0.06	< DL	0.09	
77	178	31.871	Anthracene	0.06	< DL	0.09	
78	149	33.316	Di-n-butylphthalate	3.39	< DL	0.02	
79	202	34.450	Fluoranthene	0.02	< DL	0.22	
80	184	34.799	Benzidine	1.43	2.60	0.43	trace
81	202	34.894	Pyrene	0.38	< DL	0.34	
82	244	35.224	Terphenyl d14	130.88	119.53	0.01	
83	149	36.132	Butylbenzylphthalate	0.11	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.14	< DL	0.04	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.07	< DL	0.01	
87	240	37.142	Chrysene d12	38.82	40.00	0.01	
88	228	37.180	Chrysene	0.14	< DL	0.04	
89	149	38.418	Di-n-octylphthalate	0.09	< DL	0.06	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.05	< DL	0.20	
93	264	40.378	Perylene d12	10.37	40.00	0.06	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

8401004.D

Chemron Inc
QC Summary Report

Data File 8401004.D
Sample Desc. 33584RE OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 12:54 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	28.82	39.02
2	17.28	Napthalene d8	40.00	Pass	101.13	132.29
3	25.87	Acenaphthene d10	40.00	Pass	56.40	75.84
4	31.78	Phenanthrene d10	40.00	Pass	72.85	99.07
5	37.14	Chrysene d12	40.00	Pass	27.80	38.82
6	40.43	Perylene d12	40.00	Pass	8.36	10.37

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.24	2-Fluorophenol	200.00	Pass	100.79	50
10.73	Phenol d5	200.00	Pass	98.20	49
14.16	Nitrobenzene d5	100.00	Pass	43.04	43
22.71	2-Fluorobiphenyl	100.00	Pass	56.09	56
29.82	2,4,6-Tribromophenol	200.00	Pass	68.54	34
35.23	Terphenyl d14	100.00	Pass	119.53	120

8401004.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/27/94
Chemron Sample #: 33583
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-010BH 3-4

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/26/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/26/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/26/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/26/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/26/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/26/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/26/94	8270
Isophorone	0.33	MG/KG	ND	01/26/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/26/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/26/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/26/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/26/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Naphthalene	0.33	MG/KG	ND	01/26/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/26/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/26/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/26/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/26/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/26/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/26/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/26/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/26/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/26/94	8270

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Chemron Sample #: 33583

SEMI-VOLATILES ANALYSIS REPORT

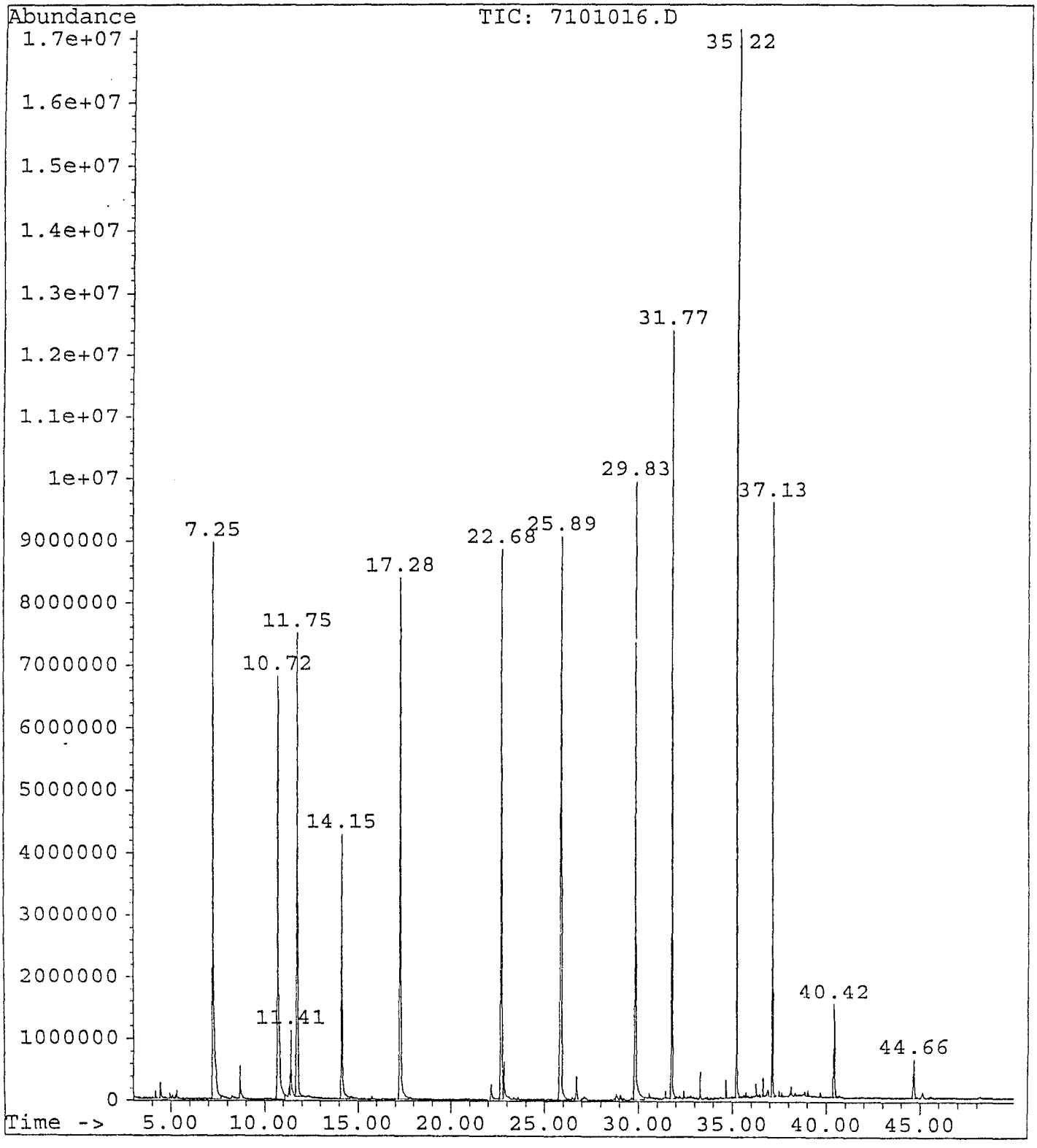
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Acenaphthene	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/26/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/26/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Fluorene	0.33	MG/KG	ND	01/26/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/26/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/26/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/26/94	8270
Phenanthrene	0.33	MG/KG	ND	01/26/94	8270
Anthracene	0.33	MG/KG	ND	01/26/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/26/94	8270
Fluoranthene	0.33	MG/KG	ND	01/26/94	8270
Pyrene	0.40	MG/KG	ND	01/26/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/26/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/26/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/26/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/26/94	8270
Chrysene	0.33	MG/KG	ND	01/26/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/26/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/26/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/26/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/26/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/26/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/26/94	8270

ND - Not Detected

Approved By: R. Chacon

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\7101016.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 11:59 pm
Method File: 1118.M
Sample Name: 33583 OPTECH, INC.
Misc Info: HP 5970II ex: 01/21/94 30g/1mL BNA
ALS vial: 71



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 7101016.D
Sample Desc. 33583 OPTECH, INC.
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 11:59 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.06	< DL	0.06	
3	42	5.880	N-Nitrosomethylethylamine		0.02	< DL	0.01	
4	112	7.383	2-Fluorophenol		91.46	75.61	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.03	< DL	0.06	
7	99	10.867	Phenol d5		130.28	78.93	0.15	
8	94	10.899	Phenol		0.45	< DL	0.15	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.05	
10	128	11.018	2-Chlorophenol		0.30	< DL	0.04	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		47.89	40.00	0.01	
13	146	11.837	1,4-Dichlorobenzene		0.15	< DL	0.03	
14	146	12.404	1,2-Dichlorobenzene		0.02	< DL	0.01	
15	108	12.649	Benzyl alcohol		0.01	< DL	0.24	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.02	< DL	0.18	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.05	< DL	0.09	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		7.55	6.24	0.25	trace
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		55.51	29.48	0.12	
23	77	14.332	Nitrobenzene		0.01	< DL	0.10	
24	82	15.484	Isophorone		0.04	< DL	0.02	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.07	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.35	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.08	< DL	0.00	
30	136	17.300	Naphthalene d8		176.69	40.00	0.02	
31	128	17.414	Naphthalene		0.10	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.03	< DL	0.03	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.04	
38	107	20.573	4-Chloro-3-methylphenol		0.02	< DL	0.23	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	116.40	43.58	0.05	
45	162	23.093	2-Chloronaphthalene	0.02	< DL	0.11	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.07	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.01	< DL	0.10	
50	164	25.898	Acenaphthene d10	95.29	40.00	0.01	
51	154	26.119	Acenaphthene	0.09	< DL	0.10	
52	138	26.138	3-Nitroaniline	0.01	< DL	0.31	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.13	< DL	0.16	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.10	< DL	0.33	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.30	< DL	0.16	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.04	< DL	0.10	
68	330	29.900	2,4,6-Tribromophenol	37.40	86.08	0.07	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.15	< DL	0.06	
75	188	31.795	Phenanthrene d10	126.47	40.00	0.02	
76	178	31.871	Phenanthrene	0.10	< DL	0.08	
77	178	31.871	Anthracene	0.10	< DL	0.08	
78	149	33.316	Di-n-butylphthalate	4.33	< DL	0.02	
79	202	34.450	Fluoranthene	0.01	< DL	0.00	
80	184	34.799	Benzidine	2.15	2.48	0.43	trace
81	202	34.894	Pyrene	0.07	< DL	0.01	
82	244	35.224	Terphenyl d14	179.36	103.95	0.02	
83	149	36.132	Butylbenzylphthalate	0.20	< DL	0.00	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.21	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.41	< DL	0.01	
87	240	37.142	Chrysene d12	61.18	40.00	0.01	
88	228	37.180	Chrysene	0.21	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.56	< DL	0.06	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.08	< DL	0.18	
93	264	40.378	Perylene d12	16.61	40.00	0.04	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

7101016.D

Chemron Inc
QC Summary Report

Data File 7101016.D
Sample Desc. 33583 OPTECH, INC.
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 11:59 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	50.28	47.89
2	17.28	Napthalene d8	40.00	Pass	183.35	176.69
3	25.89	Acenaphthene d10	40.00	Pass	104.34	95.29
4	31.77	Phenanthrene d10	40.00	Pass	136.41	126.47
5	37.13	Chrysene d12	40.00	Pass	52.29	61.18
6	40.42	Perylene d12	40.00	Pass	18.29	16.61

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	75.61	38
10.72	Phenol d5	200.00	Pass	78.93	39
14.15	Nitrobenzene d5	100.00	Pass	29.48	29
22.70	2-Fluorobiphenyl	100.00	Pass	43.58	44
29.83	2,4,6-Tribromophenol	200.00	Pass	86.08	43
35.24	Terphenyl d14	100.00	Pass	103.95	104

7101016.D

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/27/94
Chemron Sample #: 33582
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-009BH 9-10"

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/27/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/27/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/27/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/27/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/27/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/27/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/27/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/27/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/27/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/27/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/27/94	8270
Isophorone	0.33	MG/KG	ND	01/27/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/27/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/27/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/27/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/27/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/27/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/27/94	8270
Naphthalene	0.33	MG/KG	ND	01/27/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/27/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/27/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/27/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/27/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/27/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/27/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/27/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/27/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/27/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/27/94	8270

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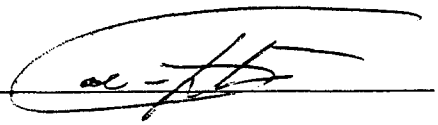
10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33582

SEMI-VOLATILES ANALYSIS REPORT

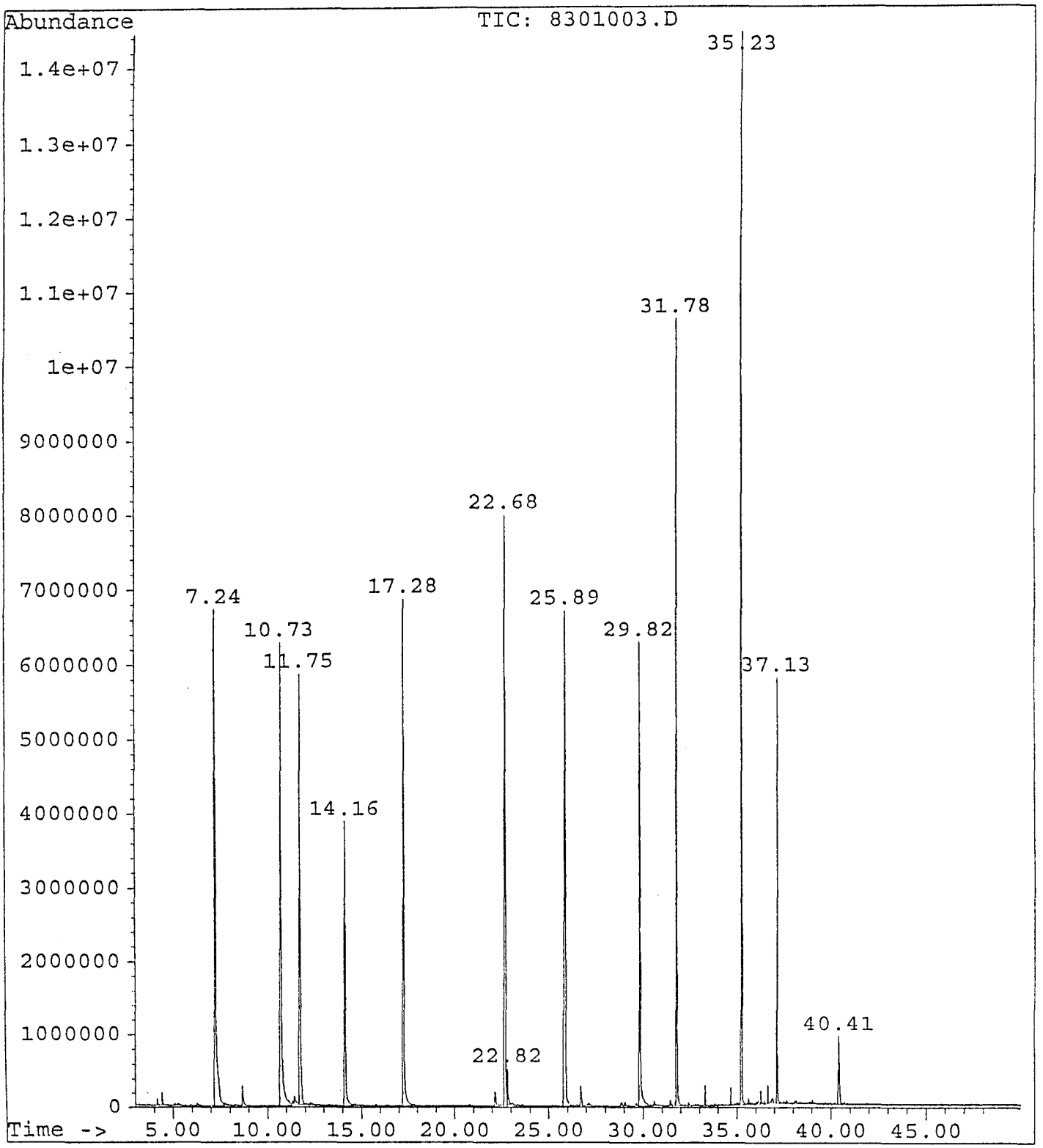
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
Acenaphthene	0.33	MG/KG	ND	01/27/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/27/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/27/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/27/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/27/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/27/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/27/94	8270
Fluorene	0.33	MG/KG	ND	01/27/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/27/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/27/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/27/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/27/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/27/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/27/94	8270
Phenanthrene	0.33	MG/KG	ND	01/27/94	8270
Anthracene	0.33	MG/KG	ND	01/27/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/27/94	8270
Fluoranthene	0.33	MG/KG	ND	01/27/94	8270
Pyrene	0.40	MG/KG	ND	01/27/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/27/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/27/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/27/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/27/94	8270
Chrysene	0.33	MG/KG	ND	01/27/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/27/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/27/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/27/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/27/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/27/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/27/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/27/94	8270

ND - Not Detected

Approved By: 

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\8301003.D
Operator: Vergel C.
Date Acquired: 27 Jan 94 11:54 am
Method File: 1118.M
Sample Name: 33582RE OPTECH, INC.
Misc Info: HP 5970II ex: 01/27/94 30g/1mL BNA
ALS vial: 83



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 8301003.D
Sample Desc. 33582RE OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 11:54 am
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.01	< DL	0.04	
3	42	5.880	N-Nitrosomethylethylamine		0.01	< DL	0.01	
4	112	7.383	2-Fluorophenol		84.60	89.28	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.05	
7	99	10.867	Phenol d5		111.01	85.85	0.14	
8	94	10.899	Phenol		0.25	< DL	0.13	
9	93	11.006	Bis(2-chloroethyl)ether		0.03	< DL	0.07	
10	128	11.018	2-Chlorophenol		0.15	< DL	0.05	
11	146	11.497	1,3-Dichlorobenzene		0.01	< DL	0.02	
12	152	11.762	1,4-Dichlorobenzene d4		37.52	40.00	0.02	
13	146	11.837	1,4-Dichlorobenzene		0.03	< DL	0.04	
14	146	12.404	1,2-Dichlorobenzene		0.04	< DL	0.02	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.06	< DL	0.08	
17	108	13.493	2-Methylphenol		0.01	< DL	0.24	
18	105	13.689	Acetophenone		0.05	< DL	0.08	
19	117	13.765	Hexachloroethane		0.01	< DL	0.00	
20	70	13.897	N-Nitrosodi-n-propylamine		6.70	7.07	0.26	trace
21	108	14.055	4-Methylphenol	*	0.02	< DL	0.06	
22	82	14.263	Nitrobenzene d5		52.38	37.77	0.11	
23	77	14.332	Nitrobenzene		0.02	< DL	0.01	
24	82	15.484	Isophorone		0.05	< DL	0.10	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.06	
27	93	16.643	Bis(2-chloroethoxy)methane		0.03	< DL	0.02	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.03	< DL	0.02	
30	136	17.300	Napthalene d8		130.15	40.00	0.02	
31	128	17.414	Naphthalene		0.16	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.01	< DL	0.43	
37	84	19.779	N-Nitrosodi-n-butylamine		0.02	< DL	0.09	
38	107	20.573	4-Chloro-3-methylphenol		0.01	< DL	0.19	
39	115	20.763	2-Methylnaphthalene		0.03	< DL	0.00	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.01	< DL	0.02	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	101.98	49.80	0.07	
45	162	23.093	2-Chloronaphthalene	0.09	< DL	0.05	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.08	
47	163	24.945	Dimethylphthalate	0.09	< DL	0.02	
48	152	25.078	Acenaphthylene	0.06	< DL	0.04	
49	165	25.268	2,6-Dinitrotoluene	0.01	< DL	0.08	
50	164	25.898	Acenaphthene d10	73.04	40.00	0.01	
51	154	26.119	Acenaphthene	0.05	< DL	0.10	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.08	< DL	0.05	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.07	< DL	0.03	
62	149	29.058	Diethylphthalate	0.21	< DL	0.16	
63	204	29.115	4-Chorophenylphenyl ether	0.04	< DL	0.03	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.06	< DL	0.32	
66	169	29.666	N-Nitroso-di-n-phenylamine **	0.12	< DL	0.09	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.19	< DL	0.08	
68	330	29.900	2,4,6-Tribromophenol	20.52	61.60	0.08	
69	248	30.705	4-Bromophenylphenylether	0.02	< DL	0.03	
70	284	30.749	Hexachlorobenzene	0.03	< DL	0.02	
71	108	30.882	Phenacetin	0.01	< DL	0.02	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.14	< DL	0.07	
75	188	31.795	Phenanthrene d10	96.41	40.00	0.01	
76	178	31.871	Phenanthrene	0.10	< DL	0.08	
77	178	31.871	Anthracene	0.10	< DL	0.08	
78	149	33.316	Di-n-butylphthalate	3.26	< DL	0.03	
79	202	34.450	Fluoranthene	0.08	< DL	0.01	
80	184	34.799	Benzidine	0.16	< DL	0.02	
81	202	34.894	Pyrene	0.10	< DL	0.00	
82	244	35.224	Terphenyl d14	128.44	125.32	0.00	
83	149	36.132	Butylbenzylphthalate	0.24	< DL	0.02	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.24	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.19	1.01	0.01	trace
87	240	37.142	Chrysene d12	36.34	40.00	0.01	
88	228	37.180	Chrysene	0.24	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.37	< DL	0.00	
90	252	39.389	Benzo(b)fluoranthene	0.02	< DL	0.06	
91	252	39.452	Benzo(k)fluoranthene	0.02	< DL	0.00	
92	252	40.239	Benzo(a)pyrene	0.05	< DL	0.18	
93	264	40.378	Perylene d12	10.80	40.00	0.04	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

8301003.D

Chemron Inc
QC Summary Report

Data File 8301003.D
Sample Desc. 33582RE OPTECH, INC.
Misc. Info. HP 5970II ex: 01/27/94 30g/1mL BNA

Date Analyzed: 27 Jan 94 11:54 am
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	28.82	37.52
2	17.28	Napthalene d8	40.00	Pass	101.13	130.15
3	25.89	Acenaphthene d10	40.00	Pass	56.40	73.04
4	31.78	Phenanthrene d10	40.00	Pass	72.85	96.41
5	37.13	Chrysene d12	40.00	Pass	27.80	36.34
6	40.41	Perylene d12	40.00	Pass	8.36	10.80

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.24	2-Fluorophenol	200.00	Pass	89.28	45
10.73	Phenol d5	200.00	Pass	85.85	43
14.16	Nitrobenzene d5	100.00	Pass	37.77	38
22.68	2-Fluorobiphenyl	100.00	Pass	49.80	50
29.82	2,4,6-Tribromophenol	200.00	Pass	61.60	31
35.23	Terphenyl d14	100.00	Pass	125.32	125

8301003.D

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INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33581
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-009BH 4-5

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/26/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/26/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/26/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/26/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/26/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/26/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/26/94	8270
Isophorone	0.33	MG/KG	ND	01/26/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/26/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/26/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/26/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/26/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Naphthalene	0.33	MG/KG	ND	01/26/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/26/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/26/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/26/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/26/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/26/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/26/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/26/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/26/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/26/94	8270

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33581

SEMI-VOLATILES ANALYSIS REPORT

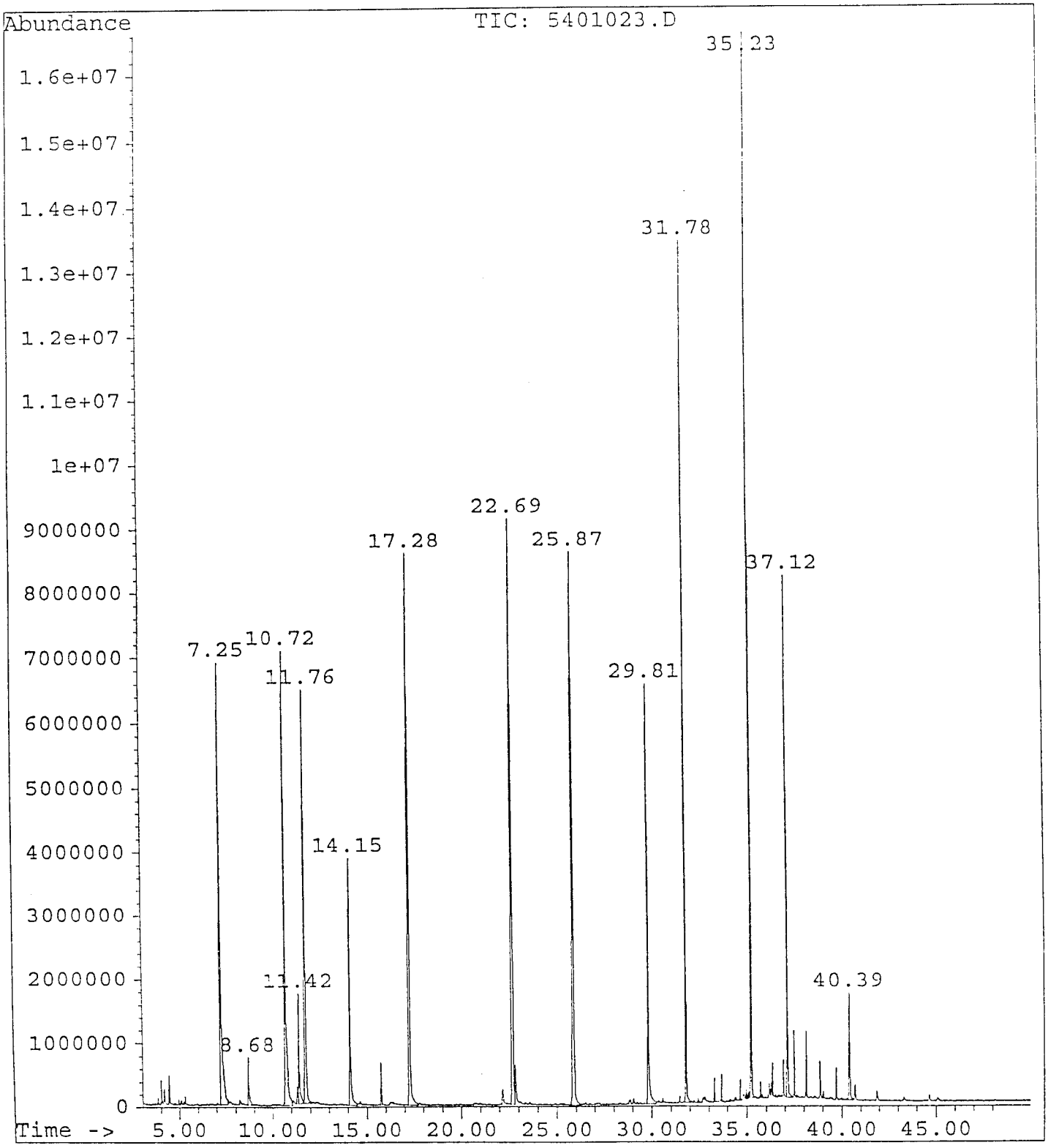
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Acenaphthene	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/26/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/26/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Fluorene	0.33	MG/KG	ND	01/26/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/26/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/26/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/26/94	8270
Phenanthrene	0.33	MG/KG	ND	01/26/94	8270
Anthracene	0.33	MG/KG	ND	01/26/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/26/94	8270
Fluoranthene	0.33	MG/KG	ND	01/26/94	8270
Pyrene	0.40	MG/KG	ND	01/26/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/26/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/26/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/26/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/26/94	8270
Chrysene	0.33	MG/KG	ND	01/26/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/26/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/26/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/26/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/26/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/26/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/26/94	8270

ND - Not Detected

Approved By: R. Graham

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\5401023.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 6:17 am
Method File: 1113.M
Sample Name: 33581 optech
Misc Info: HP 5970II ex: 01/21/94 30g/1mL BNA
ALS vial: 54



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 5401023.D
Sample Desc. 33581 optech
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 6:17 am
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.07	< DL	0.08	
3	42	5.880	N-Nitrosomethylethylamine		0.10	< DL	0.01	
4	112	7.383	2-Fluorophenol		76.59	70.60	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.06	
7	99	10.867	Phenol d5		110.78	74.83	0.15	
8	94	10.899	Phenol		0.24	< DL	0.14	
9	93	11.006	Bis(2-chloroethyl)ether		0.00	< DL	11.01	
10	128	11.018	2-Chlorophenol		0.10	< DL	0.04	
11	146	11.497	1,3-Dichlorobenzene		0.01	< DL	0.03	
12	152	11.762	1,4-Dichlorobenzene d4		42.95	40.00	0.01	
13	146	11.837	1,4-Dichlorobenzene		0.02	< DL	0.03	
14	146	12.404	1,2-Dichlorobenzene		0.03	< DL	0.03	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.01	< DL	0.12	
17	108	13.493	2-Methylphenol		0.01	< DL	0.08	
18	105	13.689	Acetophenone		0.13	< DL	0.10	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		7.25	6.69	0.25	trace
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.10	
22	82	14.263	Nitrobenzene d5		51.32	30.47	0.11	
23	77	14.332	Nitrobenzene		0.02	< DL	0.03	
24	82	15.484	Isophorone		0.01	< DL	0.01	
25	139	15.692	2-Nitrophenol		0.01	< DL	0.06	
26	122	16.278	2,4-Dimethylphenol		0.00	< DL	16.28	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.06	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.01	< DL	0.04	
30	136	17.300	Napthalene d8		158.05	40.00	0.02	
31	128	17.414	Naphthalene		0.10	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.02	< DL	0.02	
37	84	19.779	N-Nitrosodi-n-butylamine		0.02	< DL	0.12	
38	107	20.573	4-Chloro-3-methylphenol		0.00	< DL	20.57	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	113.30	46.26	0.06	
45	162	23.093	2-Chloronaphthalene	0.01	< DL	0.14	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.06	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.01	< DL	0.11	
50	164	25.898	Acenaphthene d10	87.37	40.00	0.02	
51	154	26.119	Acenaphthene	0.32	< DL	0.25	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.01	< DL	0.66	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.14	< DL	0.17	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.06	< DL	0.31	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.01	< DL	0.15	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.21	< DL	0.10	
68	330	29.900	2,4,6-Tribromophenol	20.78	52.15	0.09	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.01	< DL	0.21	
75	188	31.795	Phenanthrene d10	118.92	40.00	0.02	
76	178	31.871	Phenanthrene	0.23	< DL	0.06	
77	178	31.871	Anthracene	0.23	< DL	0.06	
78	149	33.316	Di-n-butylphthalate	4.51	< DL	0.03	
79	202	34.450	Fluoranthene	0.48	< DL	0.01	
80	184	34.799	Benzidine	1.92	2.50	0.43	trace
81	202	34.894	Pyrene	0.52	< DL	0.02	
82	244	35.224	Terphenyl d14	159.88	104.15	0.01	
83	149	36.132	Butylbenzylphthalate	0.41	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.01	< DL	0.40	
85	228	37.100	Benzo(a)anthracene	0.52	< DL	0.02	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.84	1.05	0.00	trace
87	240	37.142	Chrysene d12	54.43	40.00	0.02	
88	228	37.180	Chrysene	0.52	< DL	0.06	
89	149	38.418	Di-n-octylphthalate	0.11	< DL	0.07	
90	252	39.389	Benzo(b)fluoranthene	0.18	< DL	0.00	
91	252	39.452	Benzo(k)fluoranthene	0.18	< DL	0.06	
92	252	40.239	Benzo(a)pyrene	0.06	< DL	0.00	
93	264	40.378	Perylene d12	16.94	40.00	0.02	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

5401023.D

Chemron Inc
QC Summary Report

Data File 5401023.D
Sample Desc. 33581 optech
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 6:17 am
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.76	1,4-Dichlorobenzene d4	40.00	Pass	49.83	42.95
2	17.28	Napthalene d8	40.00	Pass	182.13	158.05
3	25.87	Acenaphthene d10	40.00	Pass	105.33	87.37
4	31.78	Phenanthrene d10	40.00	Pass	140.38	118.92
5	37.12	Chrysene d12	40.00	Pass	62.00	54.43
6	40.39	Perylene d12	40.00	Pass	27.57	16.94

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	70.60	35
10.72	Phenol d5	200.00	Pass	74.83	37
14.15	Nitrobenzene d5	100.00	Pass	30.47	30
22.69	2-Fluorobiphenyl	100.00	Pass	46.26	46
29.81	2,4,6-Tribromophenol	200.00	Pass	52.15	26
35.23	Terphenyl d14	100.00	Pass	104.15	104

5401023.D

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Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/25/94
Chemron Sample #: 33556
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-008BH 7-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/24/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/24/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/24/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/24/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/24/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/24/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/24/94	8270
Isophorone	0.33	MG/KG	ND	01/24/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/24/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/24/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/24/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/24/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Naphthalene	0.33	MG/KG	ND	01/24/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/24/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/24/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/24/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/24/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/24/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/24/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/24/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/24/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/24/94	8270

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Chemron Sample #: 33556

SEMI-VOLATILES ANALYSIS REPORT

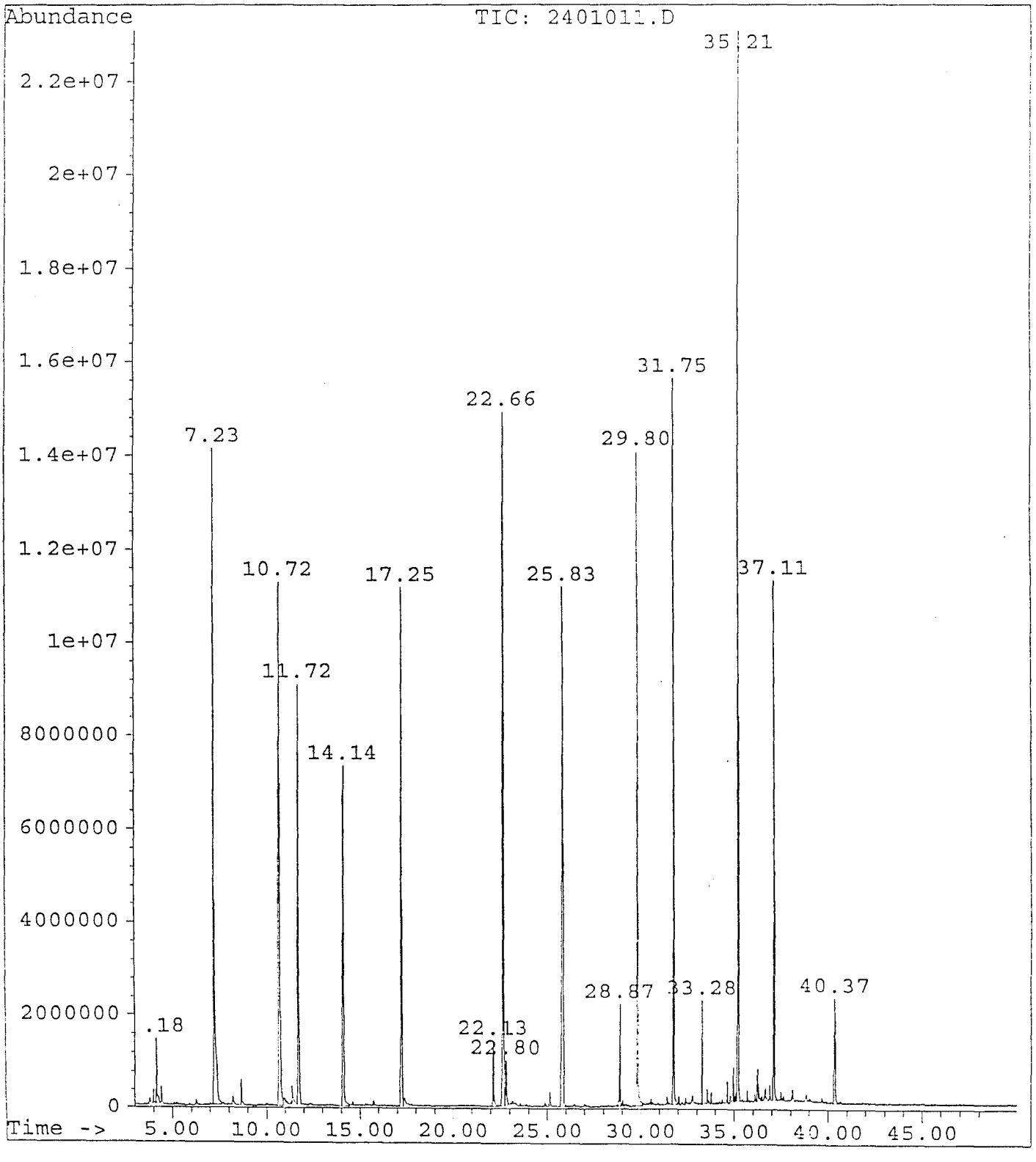
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Acenaphthene	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/24/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/24/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Fluorene	0.33	MG/KG	ND	01/24/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/24/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/24/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/24/94	8270
Phenanthrene	0.33	MG/KG	ND	01/24/94	8270
Anthracene	0.33	MG/KG	ND	01/24/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/24/94	8270
Fluoranthene	0.33	MG/KG	ND	01/24/94	8270
Pyrene	0.40	MG/KG	ND	01/24/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/24/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/24/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/24/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/24/94	8270
Chrysene	0.33	MG/KG	ND	01/24/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/24/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/24/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/24/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/24/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/24/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/24/94	8270

ND - Not Detected

Approved By: R. Oldham

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\2401011.D
Operator: Vergel C.
Date Acquired: 24 Jan 94 8:59 pm
Method File: 1118.M
Sample Name: 33556 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 24



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 2401011.D
Sample Desc. 33556 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA
Date Analyzed: 24 Jan 94 8:59 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.649	Pyridine		0.00	< DL	3.65	
2	42	3.687	N-Nitrosodimethylamine		0.03	< DL	0.02	
3	42	5.831	N-Nitrosomethylethylamine		0.02	< DL	0.11	
4	112	7.297	2-Fluorophenol		140.99	98.94	0.07	
5	102	7.933	N-Nitrosodiethylamine		0.00	< DL	7.93	
6	93	10.549	Aniline		0.04	< DL	0.03	
7	99	10.782	Phenol d5		208.93	107.44	0.06	
8	94	10.820	Phenol		0.35	< DL	0.08	
9	93	10.933	Bis(2-chloroethyl)ether		0.01	< DL	0.06	
10	128	10.971	2-Chlorophenol		0.21	< DL	0.02	
11	146	11.481	1,3-Dichlorobenzene		0.00	< DL	11.48	
12	152	11.736	1,4-Dichlorobenzene d4		56.42	40.00	0.01	
13	146	11.802	1,4-Dichlorobenzene		0.01	< DL	0.02	
14	146	12.382	1,2-Dichlorobenzene		0.03	< DL	0.02	
15	108	12.577	Benzyl alcohol		0.01	< DL	0.10	
16	45	13.144	Bis(2-chloroisopropyl)ether		0.02	< DL	0.01	
17	108	13.352	2-Methylphenol		0.01	< DL	0.16	
18	105	13.610	Acetophenone		0.06	< DL	0.06	
19	117	13.749	Hexachloroethane		0.00	< DL	13.75	
20	70	13.806	N-Nitrosodi-n-propylamine		0.00	< DL	13.81	
21	108	13.970	4-Methylphenol	*	0.01	< DL	0.09	
22	82	14.203	Nitrobenzene d5		95.61	45.21	0.07	
23	77	14.278	Nitrobenzene		0.52	< DL	0.14	
24	82	15.412	Isophorone		0.01	< DL	0.07	
25	139	15.658	2-Nitrophenol		0.00	< DL	15.66	
26	122	16.225	2,4-Dimethylphenol		0.01	< DL	0.08	
27	93	16.603	Bis(2-chloroethoxy)methane		0.01	< DL	0.03	
28	162	16.868	2,4-Dichlorophenol		0.00	< DL	16.87	
29	180	17.082	1,2,4-Trichlorobenzene		0.00	< DL	17.08	
30	136	17.284	Napthalene d8		198.47	40.00	0.03	
31	128	17.379	Naphthalene		0.16	< DL	0.05	
32	122	17.398	Benzoic acid		0.06	< DL	0.15	
33	58	17.758	a-,a-Dimethylphenethylamine		0.04	< DL	0.02	
34	162	17.853	2,6-Dichlorophenol		0.00	< DL	17.85	
35	127	17.891	4-Chloroaniline		0.01	< DL	0.13	
36	225	18.099	Hexachlorobutadiene		0.00	< DL	18.10	
37	84	19.718	N-Nitrosodi-n-butylamine		0.03	< DL	0.29	
38	107	20.518	4-Chloro-3-methylphenol		0.02	< DL	0.05	
39	115	20.726	2-Methylnaphthalene		0.01	< DL	0.02	
40	237	21.540	Hexachlorocyclopentadiene		0.00	< DL	21.54	
41	216	21.552	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.55	
42	196	22.277	2,4,6-Trichlorophenol		0.00	< DL	22.28	
43	196	22.460	2,4,5-Trichlorophenol		0.00	< DL	22.46	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/L)	RT Var (+/- 0.06)	Remarks
44	172	22.713	2-Fluorobiphenyl	202.62	66.32	0.03	
45	162	23.054	2-Chloronaphthalene	0.06	< DL	0.09	
46	65	23.804	2-Nitroaniline	0.01	< DL	0.03	
47	163	25.001	Dimethylphthalate	0.21	< DL	0.11	
48	152	25.039	Acenaphthylene	0.01	< DL	0.07	
49	165	25.191	2,6-Dinitrotoluene	0.96	< DL	0.04	
50	164	25.852	Acenaphthene d10	108.99	40.00	0.02	
51	138	26.042	3-Nitroaniline	0.00	< DL	26.04	
52	154	26.061	Acenaphthene	0.42	< DL	0.23	
53	184	26.789	2,4-Dinitrophenol	0.00	< DL	26.79	
54	250	26.931	Pentachlorobenzene	0.00	< DL	26.93	
55	168	27.216	Dibenzofuran	0.00	< DL	27.22	
56	165	27.614	2,4-Dinitrotoluene	0.02	< DL	0.22	
57	143	27.734	1-Naphthylamine	0.00	< DL	27.73	
58	139	27.841	4-Nitrophenol	0.00	< DL	27.84	
59	232	28.069	2,3,4,6-Tetrachlorophenol	0.02	< DL	0.16	
60	143	28.202	2-Naphthylamine	0.01	< DL	0.07	
61	166	28.904	Fluorene	0.00	< DL	28.90	
62	149	28.980	Diethylphthalate	3.42	< DL	0.11	
63	204	29.094	4-Chorophenylphenyl ether	0.00	< DL	29.09	
64	138	29.315	4-Nitroaniline	0.00	< DL	29.32	
65	198	29.416	4,6-Dinitro-2-methylphenol	0.15	< DL	0.38	
66	169	29.626	N-Nitroso-di-n-phenylamine **	1.96	< DL	0.17	
67	77	29.682	1,2-Diphenylhydrazine/Azobenze	0.02	< DL	0.09	
68	330	29.854	2,4,6-Tribromophenol	48.39	97.37	0.06	
69	248	30.683	4-Bromophenylphenylether	0.01	< DL	0.15	
70	284	30.728	Hexachlorobenzene	0.00	< DL	30.73	
71	108	30.804	Phenacetin	0.01	< DL	0.02	
72	295	31.367	Pentachloronitrobenzene	0.00	< DL	31.37	
73	266	31.393	Pentachlorophenol	0.00	< DL	31.39	
74	169	31.431	4-Aminobiphenyl	0.12	< DL	0.06	
75	188	31.773	Phenanthrene d10	149.75	40.00	0.03	
76	178	31.831	Phenanthrene	0.12	< DL	0.08	
77	178	31.831	Anthracene	0.12	< DL	0.08	
78	149	33.313	Di-n-butylphthalate	20.36	3.26	0.03	trace
79	202	34.433	Fluoranthene	0.06	< DL	0.23	
80	184	34.775	Benzidine	2.90	2.97	0.44	trace
81	202	34.870	Pyrene	0.10	< DL	0.08	
82	244	35.213	Terphenyl d14	213.38	109.46	0.00	
83	149	36.126	Butylbenzylphthalate	0.86	< DL	0.02	
84	252	37.072	3,3-Dichlorobenzidine	0.00	< DL	37.07	
85	240	37.129	Chrysene d12	69.12	40.00	0.02	
86	149	37.148	Bis(2-ethylhexyl)phthalate	2.31	1.03	0.02	trace
87	228	37.170	Chrysene	0.28	< DL	0.06	
88	228	37.174	Benzo(a)anthracene	0.28	< DL	0.07	
89	149	38.419	Di-n-octylphthalate	0.31	< DL	0.08	
90	252	39.395	Benzo(b)fluoranthene	0.00	< DL	39.40	
91	252	39.460	Benzo(k)fluoranthene	0.00	< DL	39.46	
92	252	40.240	Benzo(a)pyrene	0.12	< DL	0.13	
93	264	40.392	Perylene d12	22.25	40.00	0.03	
94	268	41.279	3-Methylcholanthrene	0.00	< DL	41.28	
95	276	44.118	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.12	
96	278	44.204	Dibenz(a,h)anthracene	0.00	< DL	44.20	
97	276	45.272	Benzo(g,h,i)perylene	0.00	< DL	45.27	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

2401011.D

Chemron Inc
QC Summary Report

Data File 2401011.D
Sample Desc. 33556 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 8:59 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.72	1,4-Dichlorobenzene d4	40.00	Pass	59.35	56.42
2	17.25	Napthalene d8	40.00	Pass	206.23	198.47
3	25.83	Acenaphthene d10	40.00	Pass	118.82	108.99
4	31.75	Phenanthrene d10	40.00	Pass	164.61	149.75
5	37.11	Chrysene d12	40.00	Pass	81.21	69.12
6	40.37	Perylene d12	40.00	Pass	40.13	22.25

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	98.94	49
10.72	Phenol d5	200.00	Pass	107.44	54
14.14	Nitrobenzene d5	100.00	Pass	45.21	45
22.68	2-Fluorobiphenyl	100.00	Pass	66.32	66
29.80	2,4,6-Tribromophenol	200.00	Pass	97.37	49
35.21	Terphenyl d14	100.00	Pass	109.46	109

2401011.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/27/94
Chemron Sample #: 33555
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-008BH 2-3

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/24/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/24/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/24/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/24/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/24/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/24/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/24/94	8270
Isophorone	0.33	MG/KG	ND	01/24/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/24/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/24/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/24/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/24/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Naphthalene	0.33	MG/KG	ND	01/24/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/24/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/24/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/24/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/24/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/24/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/24/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/24/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/24/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/24/94	8270

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Chemron Sample #: 33555

SEMI-VOLATILES ANALYSIS REPORT

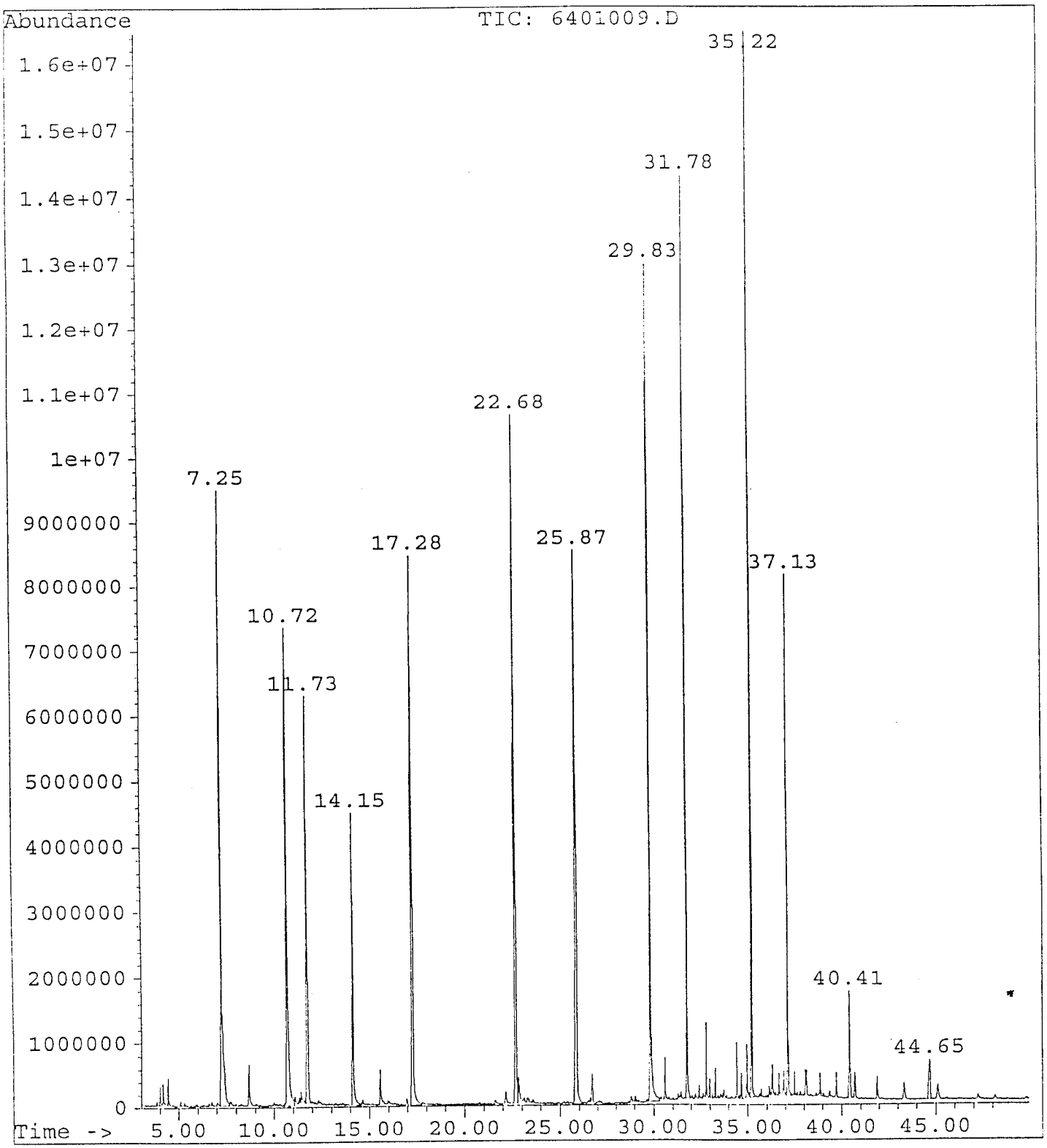
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Acenaphthene	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/24/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/24/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Fluorene	0.33	MG/KG	ND	01/24/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/24/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/24/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/24/94	8270
Phenanthrene	0.33	MG/KG	ND	01/24/94	8270
Anthracene	0.33	MG/KG	ND	01/24/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/24/94	8270
Fluoranthene	0.33	MG/KG	ND	01/24/94	8270
Pyrene	0.40	MG/KG	ND	01/24/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/24/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/24/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/24/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/24/94	8270
Chrysene	0.33	MG/KG	ND	01/24/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/24/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/24/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/24/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/24/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/24/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/24/94	8270

ND - Not Detected

Approved By: R. Ellman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\6401009.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 5:33 pm
Method File: 1118.M
Sample Name: 335555-B OPTECH, INC.
Misc Info: HP 5970II ex: 01/25/94 30g/1mL BNA
ALS vial: 64



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 6401009.D
Sample Desc. 33555-B OPTECH, INC.
Misc. Info. HP 5970II ex: 01/25/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 5:33 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.00	< DL	3.76	
3	42	5.880	N-Nitrosomethylethylamine		0.07	< DL	0.07	
4	112	7.383	2-Fluorophenol		110.66	90.64	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.07	< DL	0.06	
7	99	10.867	Phenol d5		148.69	89.26	0.15	
8	94	10.899	Phenol		0.39	< DL	0.15	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.03	
10	128	11.018	2-Chlorophenol		0.14	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.01	< DL	0.03	
12	152	11.762	1,4-Dichlorobenzene d4		48.33	40.00	0.01	
13	146	11.837	1,4-Dichlorobenzene		0.02	< DL	0.03	
14	146	12.404	1,2-Dichlorobenzene		0.03	< DL	0.01	
15	108	12.649	Benzyl alcohol		0.01	< DL	0.07	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.01	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.20	< DL	0.11	
19	117	13.765	Hexachloroethane		0.03	< DL	0.21	
20	70	13.897	N-Nitrosodi-n-propylamine		7.88	6.45	0.25	trace
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.06	
22	82	14.263	Nitrobenzene d5		60.90	33.56	0.12	
23	77	14.332	Nitrobenzene		0.02	< DL	0.01	
24	82	15.484	Isophorone		0.01	< DL	0.02	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.03	< DL	0.08	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.29	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.02	< DL	0.02	
30	136	17.300	Napthalene d8		170.30	40.00	0.02	
31	128	17.414	Naphthalene		0.22	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.04	< DL	0.06	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.01	< DL	0.08	
37	84	19.779	N-Nitrosodi-n-butylamine		0.02	< DL	0.04	
38	107	20.573	4-Chloro-3-methylphenol		0.00	< DL	20.57	
39	115	20.763	2-Methylnaphthalene		0.01	< DL	0.00	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/L)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	134.71	49.68	0.07	
45	162	23.093	2-Chloronaphthalene	0.04	< DL	0.11	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.07	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.04	< DL	0.09	
50	164	25.898	Acenaphthene d10	96.74	40.00	0.03	
51	154	26.119	Acenaphthene	0.35	< DL	0.25	
52	138	26.138	3-Nitroaniline	0.01	< DL	0.25	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.17	< DL	0.17	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.16	< DL	0.33	
66	169	29.666	N-Nitroso-di-n-phenylamine **	2.19	1.22	0.16	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.40	< DL	0.11	
68	330	29.900	2,4,6-Tribromophenol	60.14	136.34	0.05	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.03	< DL	0.30	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.09	< DL	0.11	
75	188	31.795	Phenanthrene d10	126.16	40.00	0.02	
76	178	31.871	Phenanthrene	0.11	< DL	0.09	
77	178	31.871	Anthracene	0.11	< DL	0.09	
78	149	33.316	Di-n-butylphthalate	4.51	< DL	0.02	
79	202	34.450	Fluoranthene	0.02	< DL	0.01	
80	184	34.799	Benzidine	2.06	2.37	0.42	trace
81	202	34.894	Pyrene	0.09	< DL	0.02	
82	244	35.224	Terphenyl d14	179.07	103.32	0.01	
83	149	36.132	Butylbenzylphthalate	0.39	< DL	0.00	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.22	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.79	< DL	0.01	
87	240	37.142	Chrysene d12	61.45	40.00	0.01	
88	228	37.180	Chrysene	0.22	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.24	< DL	0.07	
90	252	39.389	Benzo(b)fluoranthene	0.01	< DL	0.00	
91	252	39.452	Benzo(k)fluoranthene	0.01	< DL	0.07	
92	252	40.239	Benzo(a)pyrene	0.09	< DL	0.17	
93	264	40.378	Perylene d12	20.93	40.00	0.05	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

6401009.D

Chemron Inc
QC Summary Report

Data File 6401009.D
Sample Desc. 335555-B OPTECH, INC.
Misc. Info. HP 5970II ex: 01/25/94 30g/1mL BNA

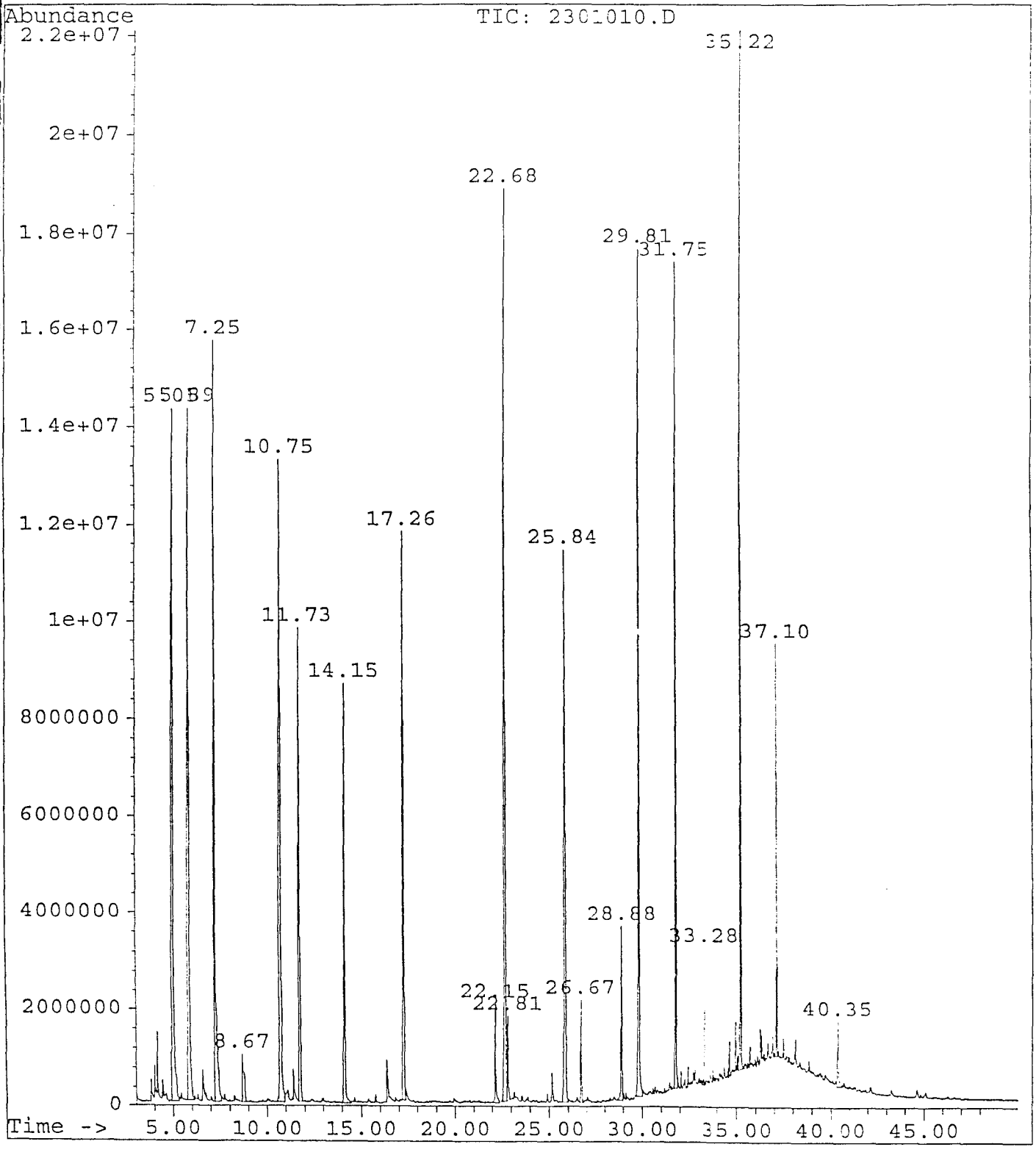
Date Analyzed: 26 Jan 94 5:33 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	49.63	48.33
2	17.28	Napthalene d8	40.00	Pass	176.60	170.30
3	25.87	Acenaphthene d10	40.00	Pass	103.11	96.74
4	31.78	Phenanthrene d10	40.00	Pass	131.76	126.16
5	37.13	Chrysene d12	40.00	Pass	57.36	61.45
6	40.43	Perylene d12	40.00	Pass	19.82	20.93

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	90.64	45
10.72	Phenol d5	200.00	Pass	89.26	45
14.15	Nitrobenzene d5	100.00	Pass	33.56	34
22.68	2-Fluorobiphenyl	100.00	Pass	49.68	50
29.85	2,4,6-Tribromophenol	200.00	Pass	136.34	68
35.24	Terphenyl d14	100.00	Pass	103.32	103

6401009.D

File: C:\CHEMPC\DATA\2301010.D
Operator: Vergel C.
Date Acquired: 24 Jan 94 7:56 pm
Method File: 1118.M
Sample Name: 33555 optech (A)
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 23



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 2301010.D
Sample Desc. 33555 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 7:56 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.649	Pyridine		0.12	< DL	0.09	
2	42	3.687	N-Nitrosodimethylamine		0.00	< DL	3.69	
3	42	5.831	N-Nitrosomethylethylamine		26.59	20.93	0.06	
4	112	7.297	2-Fluorophenol		164.69	109.45	0.04	
5	102	7.933	N-Nitrosodiethylamine		0.00	< DL	7.93	
6	93	10.549	Aniline		0.04	< DL	0.03	
7	99	10.782	Phenol d5		275.24	134.04	0.04	
8	94	10.820	Phenol		0.97	< DL	0.05	
9	93	10.933	Bis(2-chloroethyl)ether		0.01	< DL	0.02	
10	128	10.971	2-Chlorophenol		0.28	< DL	0.02	
11	146	11.481	1,3-Dichlorobenzene		0.01	< DL	0.04	
12	152	11.736	1,4-Dichlorobenzene d4		59.58	40.00	0.01	
13	146	11.802	1,4-Dichlorobenzene		0.03	< DL	0.02	
14	146	12.382	1,2-Dichlorobenzene		0.02	< DL	0.01	
15	108	12.577	Benzyl alcohol		0.03	< DL	0.02	
16	45	13.144	Bis(2-chloroisopropyl)ether		0.07	< DL	0.02	
17	108	13.352	2-Methylphenol		0.10	< DL	0.15	
18	105	13.610	Acetophenone		0.10	< DL	0.16	
19	117	13.749	Hexachloroethane		0.01	< DL	0.13	
20	70	13.806	N-Nitrosodi-n-propylamine		0.00	< DL	13.81	
21	108	13.970	4-Methylphenol	*	0.49	< DL	0.01	
22	82	14.203	Nitrobenzene d5		115.79	52.15	0.06	
23	77	14.278	Nitrobenzene		0.55	< DL	0.13	
24	82	15.412	Isophorone		0.01	< DL	0.02	
25	139	15.658	2-Nitrophenol		0.00	< DL	15.66	
26	122	16.225	2,4-Dimethylphenol		0.06	< DL	0.02	
27	93	16.603	Bis(2-chloroethoxy)methane		0.03	< DL	0.02	
28	162	16.868	2,4-Dichlorophenol		0.01	< DL	0.19	
29	180	17.082	1,2,4-Trichlorobenzene		0.02	< DL	0.03	
30	136	17.284	Naphthalene d8		208.40	40.00	0.02	
31	128	17.379	Naphthalene		0.24	< DL	0.04	
32	122	17.398	Benzoic acid		0.11	< DL	0.16	
33	58	17.758	a-,a-Dimethylphenethylamine		0.08	< DL	0.01	
34	162	17.853	2,6-Dichlorophenol		0.00	< DL	17.85	
35	127	17.891	4-Chloroaniline		0.01	< DL	0.12	
36	225	18.099	Hexachlorobutadiene		0.00	< DL	18.10	
37	84	19.718	N-Nitrosodi-n-butylamine		0.12	< DL	0.02	
38	107	20.518	4-Chloro-3-methylphenol		0.02	< DL	0.03	
39	115	20.726	2-Methylnaphthalene		0.07	< DL	0.03	
40	237	21.540	Hexachlorocyclopentadiene		0.00	< DL	21.54	
41	216	21.552	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.55	
42	196	22.277	2,4,6-Trichlorophenol		0.00	< DL	22.28	
43	196	22.460	2,4,5-Trichlorophenol		0.00	< DL	22.46	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.713	2-Fluorobiphenyl	269.99	82.34	0.03	
45	162	23.054	2-Chloronaphthalene	0.10	< DL	0.09	
46	65	23.804	2-Nitroaniline	0.09	< DL	0.05	
47	163	25.001	Dimethylphthalate	0.34	< DL	0.13	
48	152	25.039	Acenaphthylene	0.01	< DL	0.05	
49	165	25.191	2,6-Dinitrotoluene	1.85	1.62	0.03	trace
50	164	25.852	Acenaphthene d10	116.97	40.00	0.01	
51	138	26.042	3-Nitroaniline	0.04	< DL	0.20	
52	154	26.061	Acenaphthene	0.06	< DL	0.05	
53	184	26.789	2,4-Dinitrophenol	0.00	< DL	26.79	
54	250	26.931	Pentachlorobenzene	0.00	< DL	26.93	
55	168	27.216	Dibenzofuran	0.12	< DL	0.07	
56	165	27.614	2,4-Dinitrotoluene	0.01	< DL	0.04	
57	143	27.734	1-Naphthylamine	0.03	< DL	0.13	
58	139	27.841	4-Nitrophenol	0.01	< DL	0.36	
59	232	28.069	2,3,4,6-Tetrachlorophenol	0.09	< DL	0.17	
60	143	28.202	2-Naphthylamine	0.03	< DL	0.34	
61	166	28.904	Fluorene	0.17	< DL	0.06	
62	149	28.980	Diethylphthalate	5.46	1.43	0.10	trace
63	204	29.094	4-Chorophenylphenyl ether	0.01	< DL	0.06	
64	138	29.313	4-Nitroaniline	0.03	< DL	0.08	
65	198	29.416	4,6-Dinitro-2-methylphenol	0.25	< DL	0.40	
66	169	29.626	N-Nitroso-di-n-phenylamine **	2.99	1.32	0.19	trace
67	77	29.682	1,2-Diphenylhydrazine/Azobenze	0.04	< DL	0.08	
68	330	29.854	2,4,6-Tribromophenol	89.94	168.63	0.02	
69	248	30.683	4-Bromophenylphenylether	0.00	< DL	30.68	
70	284	30.728	Hexachlorobenzene	0.00	< DL	30.73	
71	108	30.804	Phenacetin	0.09	< DL	0.00	
72	295	31.367	Pentachloronitrobenzene	0.00	< DL	31.37	
73	266	31.393	Pentachlorophenol	0.00	< DL	31.39	
74	169	31.431	4-Aminobiphenyl	0.24	< DL	0.06	
75	188	31.773	Phenanthrene d10	159.38	40.00	0.02	
76	178	31.831	Phenanthrene	1.01	< DL	0.02	
77	178	31.831	Anthracene	1.01	< DL	0.02	
78	149	33.313	Di-n-butylphthalate	30.24	4.55	0.04	trace
79	202	34.433	Fluoranthene	0.47	< DL	0.01	
80	184	34.775	Benzidine	2.93	3.85	0.45	trace
81	202	34.870	Pyrene	0.68	< DL	0.01	
82	244	35.213	Terphenyl d14	196.04	128.95	0.01	
83	149	36.126	Butylbenzylphthalate	0.65	< DL	0.02	
84	252	37.072	3,3-Dichlorobenzidine	0.03	< DL	0.09	
85	240	37.129	Chrysene d12	53.90	40.00	0.03	
86	149	37.148	Bis(2-ethylhexyl)phthalate	2.53	1.45	0.01	trace
87	228	37.170	Chrysene	0.84	< DL	0.05	
88	228	37.174	Benzo(a)anthracene	0.84	< DL	0.06	
89	149	38.419	Di-n-octylphthalate	0.29	< DL	0.05	
90	252	39.395	Benzo(b)fluoranthene	0.28	< DL	0.05	
91	252	39.460	Benzo(k)fluoranthene	0.28	< DL	0.12	
92	252	40.240	Benzo(a)pyrene	0.10	< DL	0.02	
93	264	40.392	Perylene d12	13.74	40.00	0.04	
94	268	41.279	3-Methylcholanthrene	0.01	< DL	0.01	
95	276	44.118	Indeno(1,2,3-cd)pyrene	0.01	< DL	0.02	
96	278	44.204	Dibenz(a,h)anthracene	0.01	< DL	0.01	
97	276	45.272	Benzo(g,h,i)perylene	0.04	< DL	0.01	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

2301010.D

Chemron Inc
QC Summary Report

Data File 2301010.D
Sample Desc. 33555 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 7:56 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.73	1,4-Dichlorobenzene d4	40.00	Pass	59.35	59.58
2	17.26	Napthalene d8	40.00	Pass	206.23	208.40
3	25.84	Acenaphthene d10	40.00	Pass	118.82	116.97
4	31.75	Phenanthrene d10	40.00	Pass	164.61	159.38
5	37.10	Chrysene d12	40.00	Pass	81.21	53.90
6	40.35	Perylene d12	40.00	Fail	40.13	13.74 *

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	109.45	55
10.75	Phenol d5	200.00	Pass	134.04	67
14.15	Nitrobenzene d5	100.00	Pass	52.15	52
22.68	2-Fluorobiphenyl	100.00	Pass	82.34	82
29.83	2,4,6-Tribromophenol	200.00	Pass	168.63	84
35.22	Terphenyl d14	100.00	Pass	128.95	129

* matrix interference.

2301010.D

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/27/94
Chemron Sample #: 33554
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-007BH 7-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/24/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/24/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/24/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/24/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/24/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/24/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/24/94	8270
Isophorone	0.33	MG/KG	ND	01/24/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/24/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/24/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/24/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/24/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Naphthalene	0.33	MG/KG	ND	01/24/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/24/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/24/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/24/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/24/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/24/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/24/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/24/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/24/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/24/94	8270

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Chemron Sample #: 33554

SEMI-VOLATILES ANALYSIS REPORT

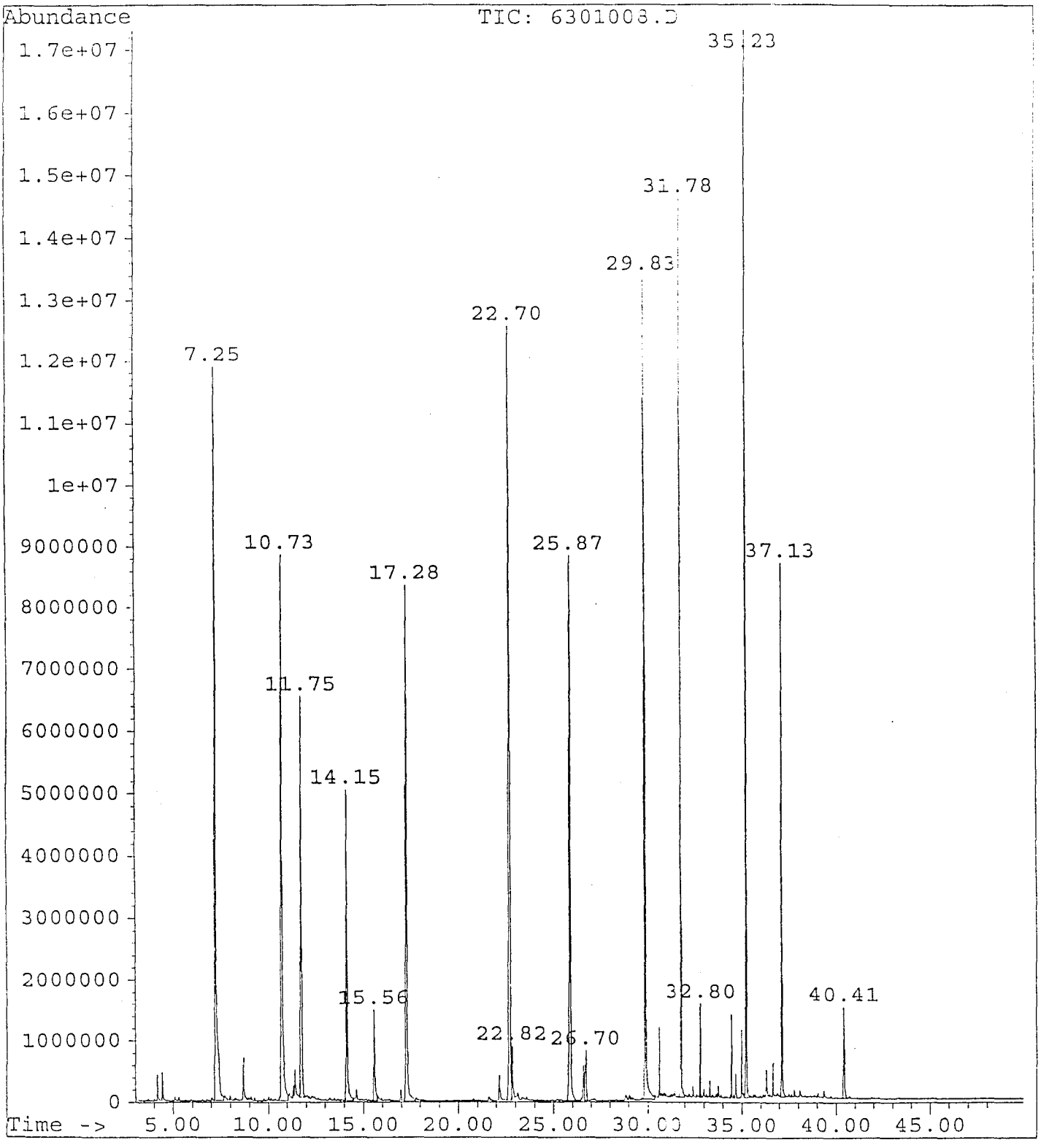
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Acenaphthene	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/24/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/24/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Fluorene	0.33	MG/KG	ND	01/24/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/24/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/24/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/24/94	8270
Phenanthrene	0.33	MG/KG	ND	01/24/94	8270
Anthracene	0.33	MG/KG	ND	01/24/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/24/94	8270
Fluoranthene	0.33	MG/KG	ND	01/24/94	8270
Pyrene	0.40	MG/KG	ND	01/24/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/24/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/24/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/24/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/24/94	8270
Chrysene	0.33	MG/KG	ND	01/24/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/24/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/24/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/24/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/24/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/24/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/24/94	8270

ND - Not Detected

Approved By: R. Oldham

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\6301008.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 4:33 pm
Method File: 1118.M
Sample Name: 335584-B OPTECH, INC.
Misc Info: HP 5970II ex: 01/25/94 30g/1mL BNA
ALS vial: 63



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 6301008.D
Sample Desc. 335554-B OPTECH, INC.
Misc. Info. HP 5970II ex: 01/25/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 4:33 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.08	< DL	0.08	
3	42	5.880	N-Nitrosomethylethylamine		0.03	< DL	0.01	
4	112	7.383	2-Fluorophenol		132.32	111.99	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.19	< DL	0.03	
7	99	10.867	Phenol d5		191.53	118.78	0.13	
8	94	10.899	Phenol		0.37	< DL	0.13	
9	93	11.006	Bis(2-chloroethyl)ether		0.03	< DL	0.01	
10	128	11.018	2-Chlorophenol		0.16	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		46.78	40.00	0.01	
13	146	11.837	1,4-Dichlorobenzene		0.02	< DL	0.03	
14	146	12.404	1,2-Dichlorobenzene		0.01	< DL	0.01	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.02	< DL	0.01	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.02	< DL	0.11	
19	117	13.765	Hexachloroethane		0.01	< DL	0.01	
20	70	13.897	N-Nitrosodi-n-propylamine		9.27	7.85	0.25	trace
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.11	
22	82	14.263	Nitrobenzene d5		70.48	39.44	0.11	
23	77	14.332	Nitrobenzene		0.38	< DL	0.18	
24	82	15.484	Isophorone		0.01	< DL	0.07	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.00	< DL	16.28	
27	93	16.643	Bis(2-chloroethoxy)methane		0.05	< DL	0.33	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.03	< DL	0.02	
30	136	17.300	Napthalene d8		167.73	40.00	0.02	
31	128	17.414	Naphthalene		0.19	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.05	< DL	0.03	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.00	< DL	18.39	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.03	
38	107	20.573	4-Chloro-3-methylphenol		0.00	< DL	20.57	
39	115	20.763	2-Methylnaphthalene		0.01	< DL	0.04	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	165.54	61.51	0.05	
45	162	23.093	2-Chloronaphthalene	0.04	< DL	0.11	
46	65	23.868	2-Nitroaniline	0.02	< DL	0.18	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.05	< DL	0.09	
50	164	25.898	Acenaphthene d10	96.01	40.00	0.03	
51	154	26.119	Acenaphthene	0.34	< DL	0.25	
52	138	26.135	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.01	< DL	0.29	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.19	< DL	0.15	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.19	< DL	0.33	
66	169	29.666	N-Nitroso-di-n-phenylamine **	2.29	1.28	0.16	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.02	< DL	0.08	
68	330	29.900	2,4,6-Tribromophenol	62.98	143.84	0.05	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.05	< DL	0.07	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.04	< DL	0.07	
75	188	31.795	Phenanthrene d10	125.83	40.00	0.02	
76	178	31.871	Phenanthrene	0.10	< DL	0.10	
77	178	31.871	Anthracene	0.10	< DL	0.10	
78	149	33.316	Di-n-butylphthalate	3.54	< DL	0.03	
79	202	34.450	Fluoranthene	0.04	< DL	0.22	
80	184	34.799	Benzidine	1.96	2.22	0.44	trace
81	202	34.894	Pyrene	0.07	< DL	0.00	
82	244	35.224	Terphenyl d14	164.27	93.36	0.01	
83	149	36.132	Butylbenzylphthalate	0.17	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.20	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.36	< DL	0.00	
87	240	37.142	Chrysene d12	62.39	40.00	0.02	
88	228	37.180	Chrysene	0.20	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.27	< DL	0.06	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.10	< DL	0.17	
93	264	40.378	Perylene d12	20.17	40.00	0.03	
94	268	41.251	3-Methylcholanthrene	0.01	< DL	0.03	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

6301008.D

Chemron Inc
QC Summary Report

Data File 6301008.D
Sample Desc. 335554-B OPTECH, INC.
Misc. Info. HP 5970II ex: 01/25/94 30g/1mL BNA

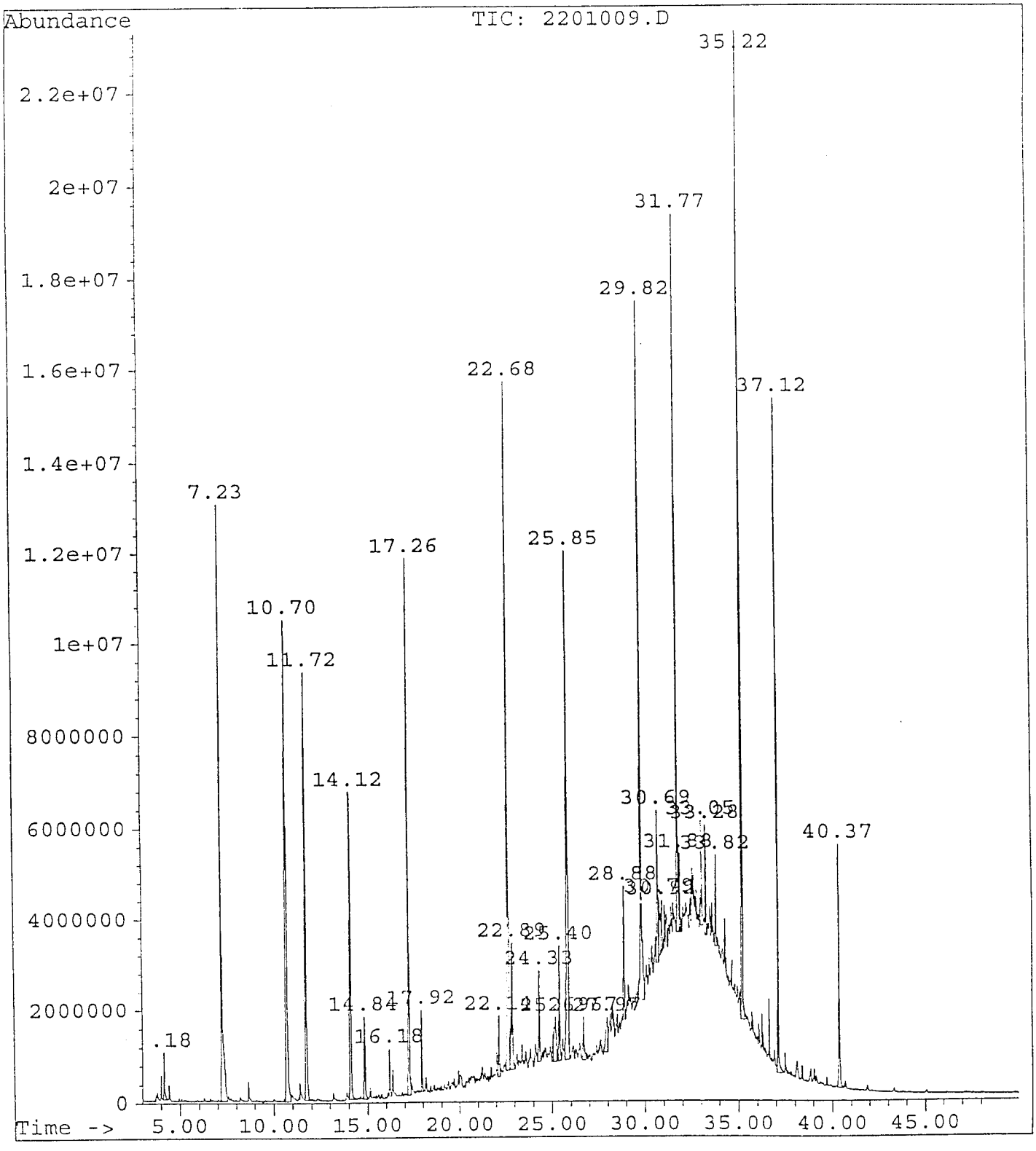
Date Analyzed: 26 Jan 94 4:33 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	49.63	46.78
2	17.28	Napthalene d8	40.00	Pass	176.60	167.73
3	25.87	Acenaphthene d10	40.00	Pass	103.11	96.01
4	31.78	Phenanthrene d10	40.00	Pass	131.76	125.83
5	37.13	Chrysene d12	40.00	Pass	57.36	62.39
6	40.41	Perylene d12	40.00	Pass	19.82	20.17

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	111.99	56
10.73	Phenol d5	200.00	Pass	118.78	59
14.15	Nitrobenzene d5	100.00	Pass	39.44	39
22.70	2-Fluorobiphenyl	100.00	Pass	61.51	62
29.85	2,4,6-Tribromophenol	200.00	Pass	143.84	72
35.23	Terphenyl d14	100.00	Pass	93.36	93

6301008.D

File: C:\CHEMPC\DATA\2201009.D
Operator: Vergel C.
Date Acquired: 24 Jan 94 6:54 pm
Method File: 1118.M
Sample Name: 33554 optech (A)
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 22



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 2201009.D
Sample Desc. 33554 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 6:54 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.649	Pyridine		0.00	< DL	3.65	
2	42	3.687	N-Nitrosodimethylamine		0.07	< DL	0.00	
3	42	5.831	N-Nitrosomethylethylamine		0.03	< DL	0.03	
4	112	7.297	2-Fluorophenol		134.41	90.42	0.07	
5	102	7.933	N-Nitrosodiethylamine		0.01	< DL	0.12	
6	93	10.549	Aniline		0.04	< DL	0.04	
7	99	10.782	Phenol d5		195.87	96.57	0.08	
8	94	10.820	Phenol		0.35	< DL	0.08	
9	93	10.933	Bis(2-chloroethyl)ether		0.01	< DL	0.08	
10	128	10.971	2-Chlorophenol		0.17	< DL	0.02	
11	146	11.481	1,3-Dichlorobenzene		0.00	< DL	11.48	
12	152	11.736	1,4-Dichlorobenzene d4		58.85	40.00	0.01	
13	146	11.802	1,4-Dichlorobenzene		0.01	< DL	0.02	
14	146	12.382	1,2-Dichlorobenzene		0.01	< DL	0.02	
15	108	12.577	Benzyl alcohol		0.01	< DL	0.03	
16	45	13.144	Bis(2-chloroisopropyl)ether		0.03	< DL	0.07	
17	108	13.352	2-Methylphenol		1.38	< DL	0.20	
18	105	13.610	Acetophenone		0.09	< DL	0.17	
19	117	13.749	Hexachloroethane		0.03	< DL	0.22	
20	70	13.806	N-Nitrosodi-n-propylamine		12.63	8.50	0.31	trace
21	108	13.970	4-Methylphenol	*	2.13	1.19	0.08	trace
22	82	14.203	Nitrobenzene d5		90.90	41.86	0.08	
23	77	14.278	Nitrobenzene		0.47	< DL	0.14	
24	82	15.412	Isophorone		0.01	< DL	0.05	
25	139	15.658	2-Nitrophenol		0.01	< DL	0.22	
26	122	16.225	2,4-Dimethylphenol		7.68	4.66	0.05	trace
27	93	16.603	Bis(2-chloroethoxy)methane		0.04	< DL	0.10	
28	162	16.868	2,4-Dichlorophenol		0.00	< DL	16.87	
29	180	17.082	1,2,4-Trichlorobenzene		0.01	< DL	0.02	
30	136	17.284	Napthalene d8		203.82	40.00	0.03	
31	128	17.379	Naphthalene		0.25	< DL	0.05	
32	122	17.398	Benzoic acid		0.00	< DL	17.40	
33	58	17.758	a-,a-Dimethylphenethylamine		0.04	< DL	0.01	
34	162	17.853	2,6-Dichlorophenol		0.01	< DL	0.09	
35	127	17.891	4-Chloroaniline		0.04	< DL	0.41	
36	225	18.099	Hexachlorobutadiene		0.00	< DL	18.10	
37	84	19.718	N-Nitrosodi-n-butylamine		0.26	< DL	0.04	
38	107	20.518	4-Chloro-3-methylphenol		0.20	< DL	0.02	
39	115	20.726	2-Methylnaphthalene		0.24	< DL	0.02	
40	237	21.540	Hexachlorocyclopentadiene		0.00	< DL	21.54	
41	216	21.552	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.55	
42	196	22.277	2,4,6-Trichlorophenol		0.05	< DL	0.13	
43	196	22.460	2,4,5-Trichlorophenol		0.13	< DL	0.03	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.713	2-Fluorobiphenyl	190.15	58.90	0.04	
45	162	23.054	2-Chloronaphthalene	0.12	< DL	0.07	
46	65	23.804	2-Nitroaniline	0.12	< DL	0.07	
47	163	25.001	Dimethylphthalate	0.02	< DL	0.03	
48	152	25.039	Acenaphthylene	0.51	< DL	0.07	
49	165	25.191	2,6-Dinitrotoluene	1.75	1.56	0.04	trace
50	164	25.852	Acenaphthene d10	115.17	40.00	0.00	
51	138	26.042	3-Nitroaniline	0.18	< DL	0.02	
52	154	26.061	Acenaphthene	0.09	< DL	0.06	
53	184	26.789	2,4-Dinitrophenol	0.05	< DL	0.61	
54	250	26.931	Pentachlorobenzene	0.00	< DL	26.93	
55	168	27.216	Dibenzofuran	0.28	< DL	0.07	
56	165	27.614	2,4-Dinitrotoluene	0.10	< DL	0.01	
57	143	27.734	1-Naphthylamine	0.12	< DL	0.49	
58	139	27.841	4-Nitrophenol	0.08	< DL	0.11	
59	232	28.069	2,3,4,6-Tetrachlorophenol	0.07	< DL	0.07	
60	143	28.202	2-Naphthylamine	0.24	< DL	0.30	
61	166	28.904	Fluorene	0.28	< DL	0.04	
62	149	28.980	Diethylphthalate	4.56	1.21	0.10	trace
63	204	29.094	4-Chorophenylphenyl ether	0.05	< DL	0.10	
64	138	29.315	4-Nitroaniline	0.15	< DL	0.07	
65	198	29.416	4,6-Dinitro-2-methylphenol	0.04	< DL	0.06	
66	169	29.626	N-Nitroso-di-n-phenylamine **	0.76	< DL	0.08	
67	77	29.682	1,2-Diphenylhydrazine/Azobenze	0.08	< DL	0.04	
68	330	29.854	2,4,6-Tribromophenol	68.13	129.73	0.04	
69	248	30.683	4-Bromophenylphenylether	0.03	< DL	0.06	
70	284	30.728	Hexachlorobenzene	0.00	< DL	30.73	
71	108	30.804	Phenacetin	0.45	< DL	0.01	
72	295	31.367	Pentachloronitrobenzene	0.00	< DL	31.37	
73	266	31.393	Pentachlorophenol	0.02	< DL	0.05	
74	169	31.431	4-Aminobiphenyl	0.86	< DL	0.05	
75	188	31.773	Phenanthrene d10	138.62	40.00	0.01	
76	178	31.831	Phenanthrene	0.71	< DL	0.03	
77	178	31.831	Anthracene	0.71	< DL	0.03	
78	149	33.313	Di-n-butylphthalate	25.20	4.36	0.03	trace
79	202	34.433	Fluoranthene	0.19	< DL	0.02	
80	184	34.775	Benzidine	2.69	1.81	0.44	trace
81	202	34.870	Pyrene	1.02	< DL	0.02	
82	244	35.213	Terphenyl d14	202.51	68.42	0.00	
83	149	36.126	Butylbenzylphthalate	1.12	< DL	0.01	
84	252	37.072	3,3-Dichlorobenzidine	0.03	< DL	0.03	
85	240	37.129	Chrysene d12	104.94	40.00	0.01	
86	149	37.148	Bis(2-ethylhexyl)phthalate	3.25	< DL	0.01	
87	228	37.170	Chrysene	0.72	< DL	0.05	
88	228	37.174	Benzo(a)anthracene	0.72	< DL	0.06	
89	149	38.419	Di-n-octylphthalate	0.50	< DL	0.04	
90	252	39.395	Benzo(b)fluoranthene	0.57	< DL	0.05	
91	252	39.460	Benzo(k)fluoranthene	0.57	< DL	0.11	
92	252	40.240	Benzo(a)pyrene	0.29	< DL	0.04	
93	264	40.392	Perylene d12	58.72	40.00	0.02	
94	268	41.279	3-Methylcholanthrene	0.01	< DL	0.01	
95	276	44.118	Indeno(1,2,3-cd)pyrene	0.17	< DL	0.03	
96	278	44.204	Dibenz(a,h)anthracene	0.05	< DL	0.02	
97	276	45.272	Benzo(g,h,i)perylene	0.09	< DL	0.01	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

2201009.D

Chemron Inc
QC Summary Report

Data File 2201009.D
Sample Desc. 33554 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 6:54 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.72	1,4-Dichlorobenzene d4	40.00	Pass	59.35	58.85
2	17.26	Napthalene d8	40.00	Pass	206.23	203.82
3	25.85	Acenaphthene d10	40.00	Pass	118.82	115.17
4	31.77	Phenanthrene d10	40.00	Pass	164.61	138.62
5	37.12	Chrysene d12	40.00	Pass	81.21	104.94
6	40.37	Perylene d12	40.00	Pass	40.13	58.72

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	90.42	45
10.70	Phenol d5	200.00	Pass	96.57	48
14.12	Nitrobenzene d5	100.00	Pass	41.86	42
22.68	2-Fluorobiphenyl	100.00	Pass	58.90	59
29.82	2,4,6-Tribromophenol	200.00	Pass	129.73	65
35.22	Terphenyl d14	100.00	Pass	68.42	68

2201009.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/25/94
Chemron Sample #: 33553
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS Garland, Texas
Client Sample #: 01-007BH 2-3

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/24/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/24/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
Benzyl Alcoh	0.33	MG/KG	ND	01/24/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/24/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/24/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/24/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/24/94	8270
Isophorone	0.33	MG/KG	ND	01/24/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/24/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/24/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/24/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/24/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Naphthalene	0.33	MG/KG	ND	01/24/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/24/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/24/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/24/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/24/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/24/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/24/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/24/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/24/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/24/94	8270

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Chemron Sample #: 33553

SEMI-VOLATILES ANALYSIS REPORT

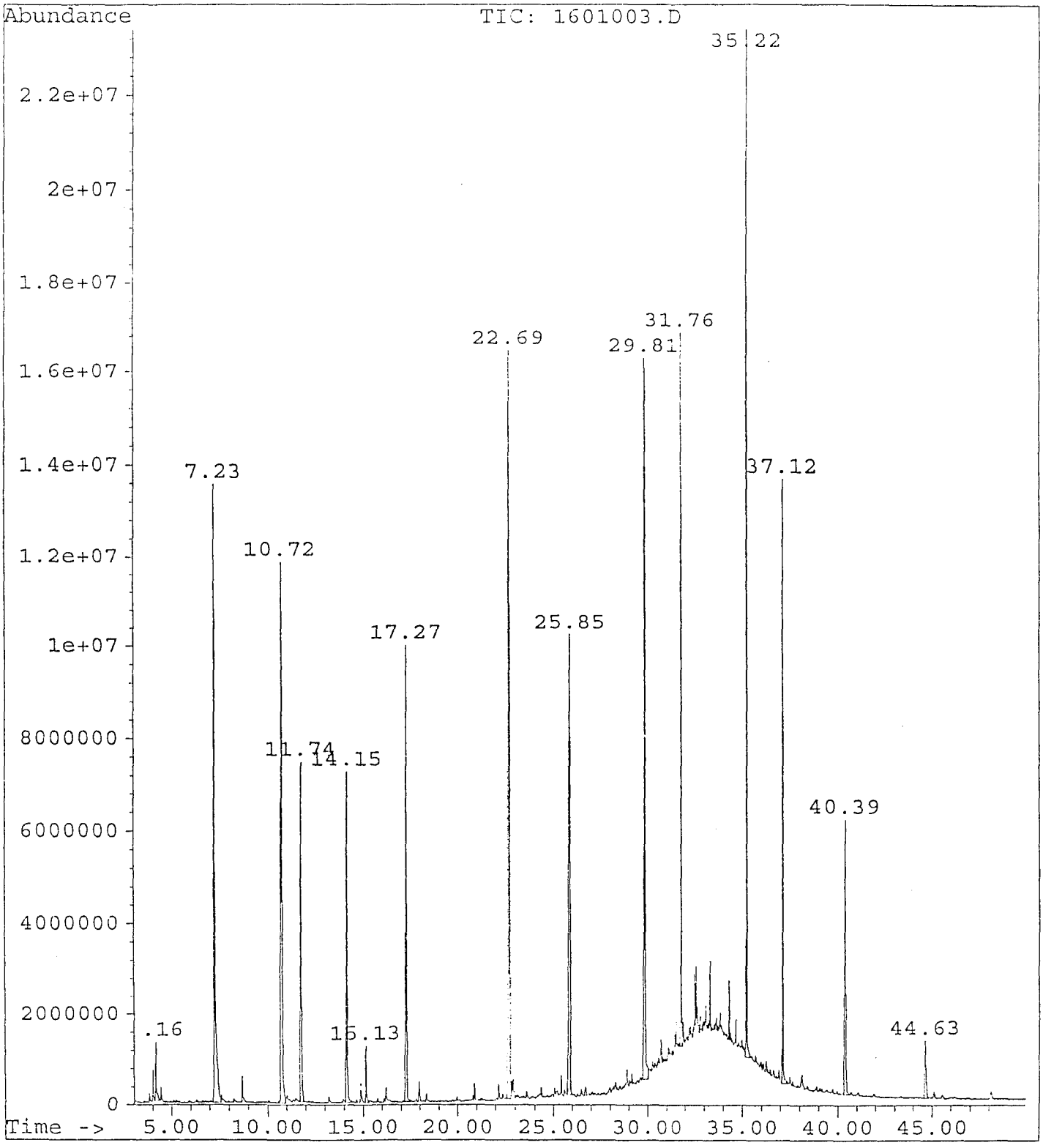
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Acenaphthene	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/24/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/24/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Fluorene	0.33	MG/KG	ND	01/24/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/24/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/24/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/24/94	8270
Phenanthrene	0.33	MG/KG	ND	01/24/94	8270
Anthracene	0.33	MG/KG	ND	01/24/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/24/94	8270
Fluoranthene	0.33	MG/KG	ND	01/24/94	8270
Pyrene	0.40	MG/KG	ND	01/24/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/24/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/24/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/24/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/24/94	8270
Chrysene	0.33	MG/KG	ND	01/24/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/24/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/24/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/24/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/24/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/24/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/24/94	8270

ND - Not Detected

Approved By: R. Ellman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\1601003.D
Operator: Vergel C.
Date Acquired: 24 Jan 94 12:51 pm
Method File: 1118.M
Sample Name: 33553 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 16



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 1601003.D
Sample Desc. 33553 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 12:51 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/mL)	RT Var (+/- 0.06)	Remarks
1	79	3.649	Pyridine		0.00	< DL	3.65	
2	42	3.687	N-Nitrosodimethylamine		0.00	< DL	3.69	
3	42	5.831	N-Nitrosomethylethylamine		0.03	< DL	0.02	
4	112	7.297	2-Fluorophenol		145.35	117.32	0.07	
5	102	7.933	N-Nitrosodiethylamine		0.00	< DL	7.93	
6	93	10.549	Aniline		0.06	< DL	0.04	
7	99	10.782	Phenol d5		206.51	122.15	0.06	
8	94	10.820	Phenol		0.35	< DL	0.06	
9	93	10.933	Bis(2-chloroethyl)ether		0.02	< DL	0.01	
10	128	10.971	2-Chlorophenol		0.18	< DL	0.02	
11	146	11.481	1,3-Dichlorobenzene		0.00	< DL	11.48	
12	152	11.736	1,4-Dichlorobenzene d4		49.05	40.00	0.00	
13	146	11.802	1,4-Dichlorobenzene		0.02	< DL	0.01	
14	146	12.382	1,2-Dichlorobenzene		0.01	< DL	0.02	
15	108	12.577	Benzyl alcohol		0.02	< DL	0.05	
16	45	13.144	Bis(2-chloroisopropyl)ether		0.04	< DL	0.05	
17	108	13.352	2-Methylphenol		1.09	< DL	0.18	
18	105	13.610	Acetophenone		0.07	< DL	0.06	
19	117	13.749	Hexachloroethane		0.01	< DL	0.25	
20	70	13.806	N-Nitrosodi-n-propylamine		13.87	11.20	0.33	
21	108	13.970	4-Methylphenol	*	1.26	< DL	0.04	
22	82	14.203	Nitrobenzene d5		98.38	54.25	0.05	
23	77	14.278	Nitrobenzene		0.55	< DL	0.13	
24	82	15.412	Isophorone		0.06	< DL	0.06	
25	139	15.658	2-Nitrophenol		0.00	< DL	15.66	
26	122	16.225	2,4-Dimethylphenol		2.56	1.86	0.03	trace
27	93	16.603	Bis(2-chloroethoxy)methane		0.01	< DL	0.04	
28	162	16.868	2,4-Dichlorophenol		0.01	< DL	0.19	
29	180	17.082	1,2,4-Trichlorobenzene		0.02	< DL	0.01	
30	136	17.284	Naphthalene d8		170.20	40.00	0.02	
31	128	17.379	Naphthalene		0.16	< DL	0.04	
32	122	17.398	Benzoic acid		0.24	< DL	0.30	
33	58	17.758	a-,a-Dimethylphenethylamine		0.02	< DL	0.02	
34	162	17.853	2,6-Dichlorophenol		0.00	< DL	17.85	
35	127	17.891	4-Chloroaniline		0.00	< DL	17.89	
36	225	18.099	Hexachlorobutadiene		0.00	< DL	18.10	
37	84	19.718	N-Nitrosodi-n-butylamine		0.11	< DL	0.05	
38	107	20.518	4-Chloro-3-methylphenol		0.03	< DL	0.08	
39	115	20.726	2-Methylnaphthalene		0.01	< DL	0.02	
40	237	21.540	Hexachlorocyclopentadiene		0.00	< DL	21.54	
41	216	21.552	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.55	
42	196	22.277	2,4,6-Trichlorophenol		0.00	< DL	22.28	
43	196	22.460	2,4,5-Trichlorophenol		0.00	< DL	22.46	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.713	2-Fluorobiphenyl	202.70	76.24	0.03	
45	162	23.054	2-Chloronaphthalene	0.08	< DL	0.10	
46	65	23.804	2-Nitroaniline	0.02	< DL	0.04	
47	163	25.001	Dimethylphthalate	0.20	< DL	0.12	
48	152	25.039	Acenaphthylene	0.08	< DL	0.03	
49	165	25.191	2,6-Dinitrotoluene	0.26	< DL	0.04	
50	164	25.852	Acenaphthene d10	94.85	40.00	0.01	
51	138	26.042	3-Nitroaniline	0.04	< DL	0.02	
52	154	26.061	Acenaphthene	0.03	< DL	0.06	
53	184	26.789	2,4-Dinitrophenol	0.00	< DL	26.79	
54	250	26.931	Pentachlorobenzene	0.00	< DL	26.93	
55	168	27.216	Dibenzofuran	0.01	< DL	0.04	
56	165	27.614	2,4-Dinitrotoluene	0.01	< DL	0.06	
57	143	27.734	1-Naphthylamine	0.02	< DL	0.08	
58	139	27.841	4-Nitrophenol	0.01	< DL	0.03	
59	232	28.069	2,3,4,6-Tetrachlorophenol	0.01	< DL	0.04	
60	143	28.202	2-Naphthylamine	0.04	< DL	0.07	
61	166	28.904	Fluorene	0.03	< DL	0.01	
62	149	28.980	Diethylphthalate	1.03	< DL	0.08	
63	204	29.094	4-Chorophenylphenyl ether	0.04	< DL	0.04	
64	138	29.315	4-Nitroaniline	0.04	< DL	0.06	
65	198	29.416	4,6-Dinitro-2-methylphenol	0.21	< DL	0.39	
66	169	29.626	N-Nitroso-di-n-phenylamine **	2.59	1.35	0.18	trace
67	77	29.682	1,2-Diphenylhydrazine/Azobenze	0.08	< DL	0.10	
68	330	29.854	2,4,6-Tribromophenol	72.36	167.30	0.02	
69	248	30.683	4-Bromophenylphenylether	0.02	< DL	0.03	
70	284	30.728	Hexachlorobenzene	0.00	< DL	30.73	
71	108	30.804	Phenacetin	0.05	< DL	0.00	
72	295	31.367	Pentachloronitrobenzene	0.00	< DL	31.37	
73	266	31.393	Pentachlorophenol	0.01	< DL	0.04	
74	169	31.431	4-Aminobiphenyl	0.19	< DL	0.04	
75	188	31.773	Phenanthrene d10	134.33	40.00	0.02	
76	178	31.831	Phenanthrene	0.36	< DL	0.02	
77	178	31.831	Anthracene	0.36	< DL	0.02	
78	149	33.313	Di-n-butylphthalate	11.36	2.03	0.03	trace
79	202	34.433	Fluoranthene	0.54	< DL	0.02	
80	184	34.775	Benzidine	2.82	2.53	0.45	trace
81	202	34.870	Pyrene	0.54	< DL	0.01	
82	244	35.213	Terphenyl d14	219.66	98.71	0.01	
83	149	36.126	Butylbenzylphthalate	0.51	< DL	0.00	
84	252	37.072	3,3-Dichlorobenzidine	0.03	< DL	0.03	
85	240	37.129	Chrysene d12	78.90	40.00	0.01	
86	149	37.148	Bis(2-ethylhexyl)phthalate	1.37	< DL	0.01	
87	228	37.170	Chrysene	0.90	< DL	0.05	
88	228	37.174	Benzo(a)anthracene	0.90	< DL	0.06	
89	149	38.419	Di-n-octylphthalate	0.33	< DL	0.02	
90	252	39.395	Benzo(b)fluoranthene	0.57	< DL	0.03	
91	252	39.460	Benzo(k)fluoranthene	0.57	< DL	0.10	
92	252	40.240	Benzo(a)pyrene	0.26	< DL	0.02	
93	264	40.392	Perylene d12	66.41	40.00	0.00	
94	268	41.279	3-Methylcholanthrene	0.01	< DL	0.04	
95	276	44.118	Indeno(1,2,3-cd)pyrene	0.16	< DL	0.02	
96	278	44.204	Dibenz(a,h)anthracene	0.05	< DL	0.01	
97	276	45.272	Benzo(g,h,i)perylene	0.15	< DL	0.00	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

1601003.D

Chemron Inc
QC Summary Report

Data File 1601003.D
Sample Desc. 33553 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 12:51 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.74	1,4-Dichlorobenzene d4	40.00	Pass	41.89	49.05
2	17.27	Napthalene d8	40.00	Pass	148.16	170.20
3	25.85	Acenaphthene d10	40.00	Pass	84.73	94.85
4	31.76	Phenanthrene d10	40.00	Pass	119.95	134.33
5	37.12	Chrysene d12	40.00	Pass	69.38	78.90
6	40.39	Perylene d12	40.00	Pass	44.46	66.41

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	117.32	59
10.72	Phenol d5	200.00	Pass	122.15	61
14.15	Nitrobenzene d5	100.00	Pass	54.25	54
22.69	2-Fluorobiphenyl	100.00	Pass	76.24	76
29.83	2,4,6-Tribromophenol	200.00	Pass	167.30	84
35.22	Terphenyl d14	100.00	Pass	98.71	99

1601003.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33566
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-006BH 7-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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Chemron Sample #: 33566

SEMI-VOLATILES ANALYSIS REPORT

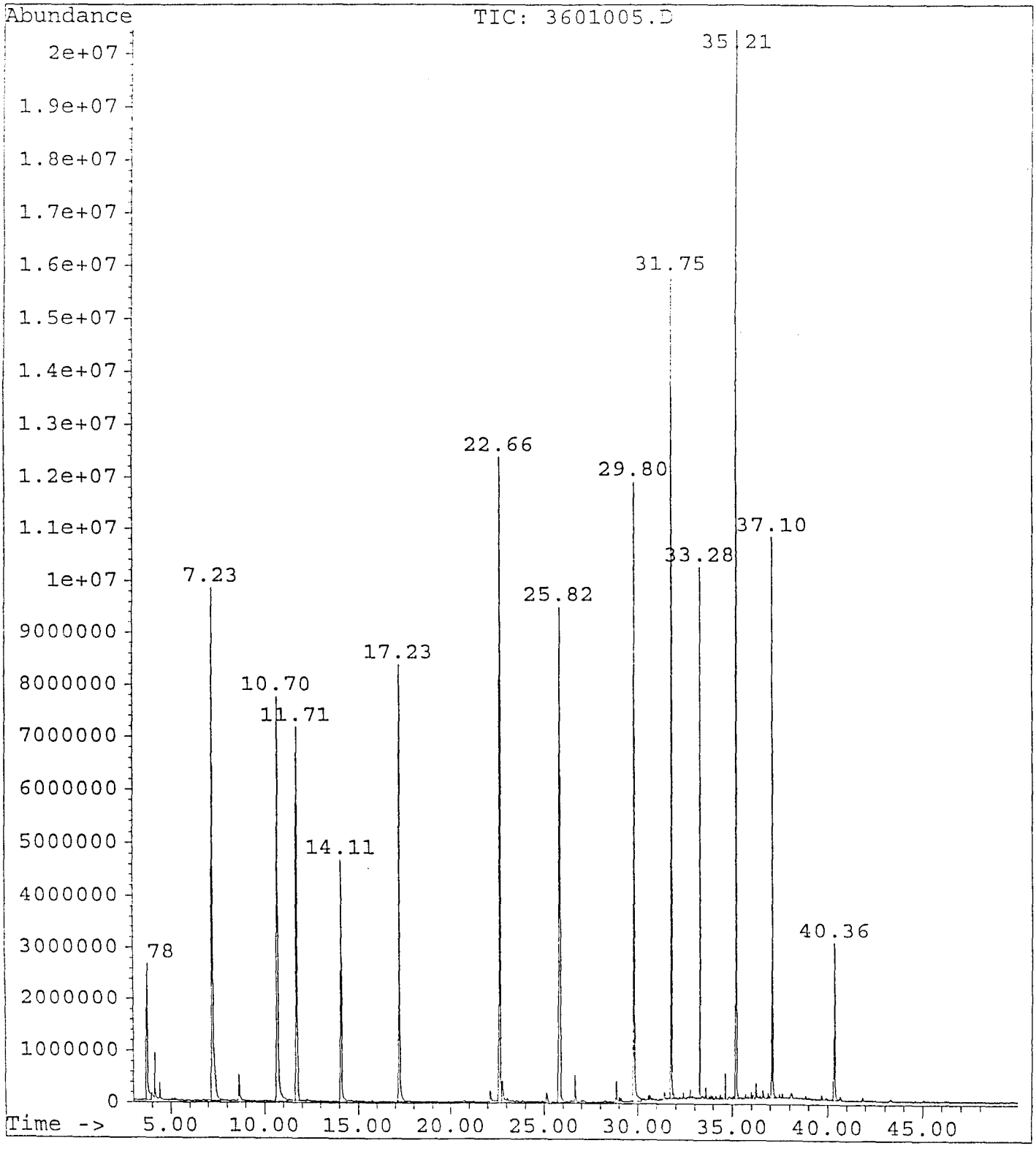
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	0.55	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Eckman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\3601005.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 12:26 pm
Method File: 1118.M
Sample Name: 33566 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 36



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 3601005.D
Sample Desc. 33566 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 12:26 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		2.70	2.75	0.02	trace
3	42	5.880	N-Nitrosomethylethylamine		0.01	< DL	0.12	
4	112	7.383	2-Fluorophenol		109.47	86.91	0.16	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.08	
7	99	10.867	Phenol d5		145.79	84.81	0.17	
8	94	10.899	Phenol		0.69	< DL	0.17	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.25	
10	128	11.018	2-Chlorophenol		0.38	< DL	0.08	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		49.87	40.00	0.05	
13	146	11.837	1,4-Dichlorobenzene		0.14	< DL	0.07	
14	146	12.404	1,2-Dichlorobenzene		0.01	< DL	0.05	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.02	< DL	0.09	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.03	< DL	0.13	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		8.49	6.74	0.21	trace
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.01	
22	82	14.263	Nitrobenzene d5		65.69	37.31	0.16	
23	77	14.332	Nitrobenzene		0.02	< DL	0.04	
24	82	15.484	Isophorone		0.03	< DL	0.06	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.03	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.18	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.13	< DL	0.06	
30	136	17.300	Napthalene d8		165.23	40.00	0.07	
31	128	17.414	Naphthalene		0.09	< DL	0.09	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.02	< DL	0.01	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.02	
38	107	20.573	4-Chloro-3-methylphenol		0.19	< DL	0.13	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	157.35	54.81	0.09	
45	162	23.093	2-Chloronaphthalene	0.03	< DL	0.15	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.02	
47	163	24.945	Dimethylphthalate	0.01	< DL	0.04	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.54	< DL	0.12	
50	164	25.898	Acenaphthene d10	102.41	40.00	0.07	
51	154	26.119	Acenaphthene	0.23	< DL	0.14	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.01	< DL	0.09	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.09	< DL	0.10	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.37	< DL	0.18	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.14	< DL	0.30	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.83	< DL	0.14	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.09	< DL	0.03	
68	330	29.900	2,4,6-Tribromophenol	52.59	112.61	0.10	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.01	< DL	0.15	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.14	< DL	0.08	
75	188	31.795	Phenanthrene d10	140.60	40.00	0.05	
76	178	31.871	Phenanthrene	0.13	< DL	0.12	
77	178	31.871	Anthracene	0.13	< DL	0.12	
78	149	33.316	Di-n-butylphthalate	96.97	16.55	0.03	- 550 ug/kg
79	202	34.450	Fluoranthene	0.04	< DL	0.36	
80	184	34.799	Benzidine	2.11	2.25	0.41	trace
81	202	34.894	Pyrene	0.47	< DL	0.04	
82	244	35.224	Terphenyl d14	174.18	93.04	0.01	
83	149	36.132	Butylbenzylphthalate	0.44	< DL	0.03	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.26	< DL	0.00	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.83	< DL	0.02	
87	240	37.142	Chrysene d12	66.38	40.00	0.04	
88	228	37.180	Chrysene	0.26	< DL	0.08	
89	149	38.418	Di-n-octylphthalate	0.23	< DL	0.08	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.18	< DL	0.14	
93	264	40.378	Perylene d12	33.95	40.00	0.02	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

3601005.D

Chemron Inc
QC Summary Report

Data File 3601005.D
Sample Desc. 33566 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 12:26 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.71	1,4-Dichlorobenzene d4	40.00	Pass	47.11	49.87
2	17.23	Napthalene d8	40.00	Pass	173.11	165.23
3	25.82	Acenaphthene d10	40.00	Pass	98.91	102.41
4	31.75	Phenanthrene d10	40.00	Pass	141.32	140.60
5	37.10	Chrysene d12	40.00	Pass	57.39	66.38
6	40.36	Perylene d12	40.00	Pass	27.23	33.95

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	86.91	43
10.70	Phenol d5	200.00	Pass	84.81	42
14.11	Nitrobenzene d5	100.00	Pass	37.31	37
22.66	2-Fluorobiphenyl	100.00	Pass	54.81	55
29.80	2,4,6-Tribromophenol	200.00	Pass	112.61	56
35.21	Terphenyl d14	100.00	Pass	93.04	93

3601005.D

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Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33565
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-006BH 2-3

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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Chemron Sample #: 33565

SEMI-VOLATILES ANALYSIS REPORT

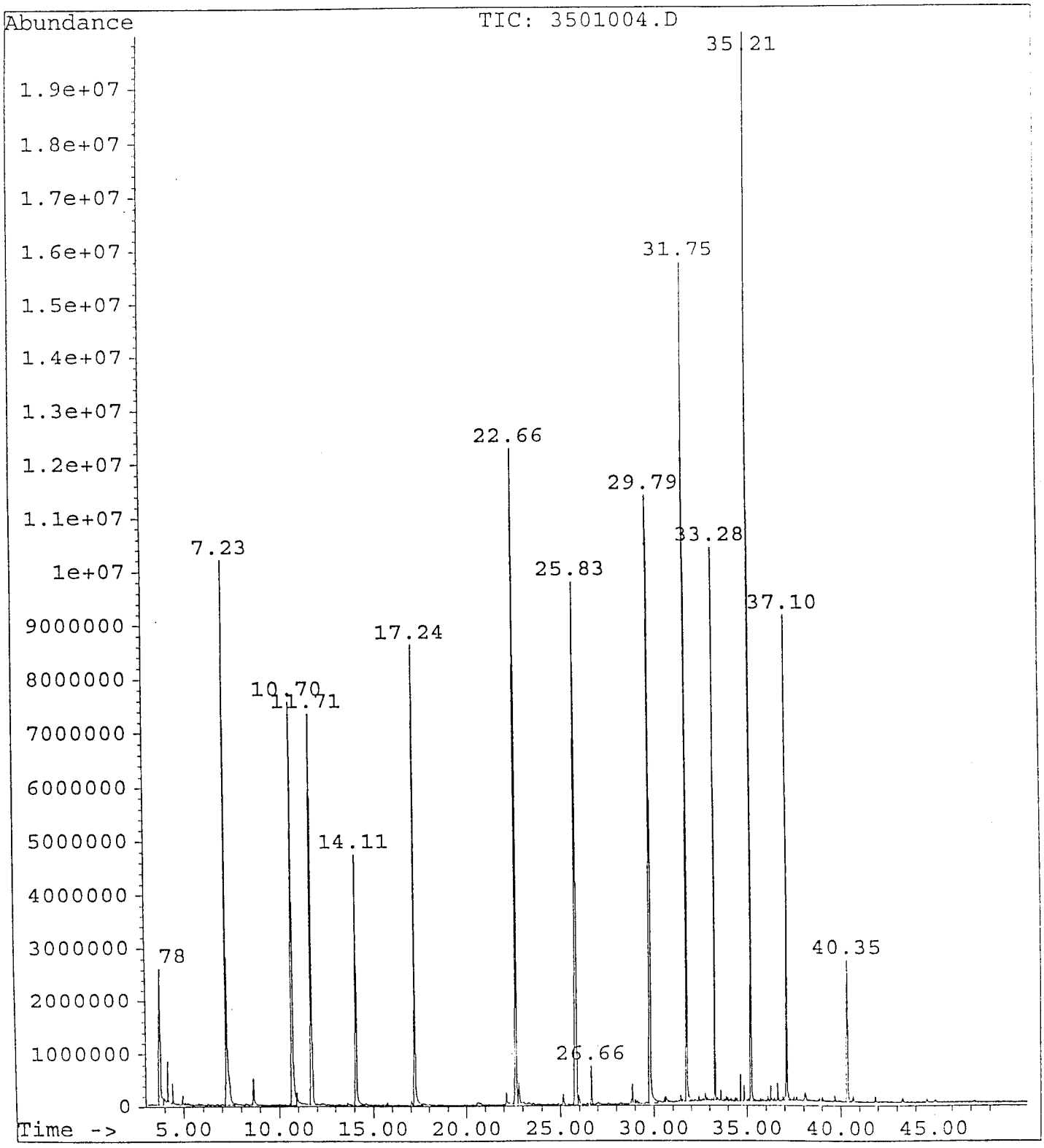
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	0.60	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. McLean

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\3501004.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 11:27 am
Method File: 1118.M
Sample Name: 33565 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 35



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 3501004.D
Sample Desc. 33565 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 11:27 am
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.00	< DL	3.76	
3	42	5.880	N-Nitrosomethylethylamine		0.11	< DL	0.10	
4	112	7.383	2-Fluorophenol		107.57	85.09	0.15	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.08	
7	99	10.867	Phenol d5		141.68	82.12	0.17	
8	94	10.899	Phenol		1.99	< DL	0.16	
9	93	11.006	Bis(2-chloroethyl)ether		0.04	< DL	0.08	
10	128	11.018	2-Chlorophenol		1.48	< DL	0.08	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		50.05	40.00	0.05	
13	146	11.837	1,4-Dichlorobenzene		0.82	< DL	0.07	
14	146	12.404	1,2-Dichlorobenzene		0.01	< DL	0.05	
15	108	12.649	Benzyl alcohol		0.01	< DL	0.18	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.02	< DL	0.09	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.03	< DL	0.11	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		0.49	< DL	0.24	
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		67.13	37.79	0.15	
23	77	14.332	Nitrobenzene		0.31	< DL	0.22	
24	82	15.484	Isophorone		0.02	< DL	0.08	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.03	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.18	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.77	< DL	0.06	
30	136	17.300	Napthalene d8		166.71	40.00	0.06	
31	128	17.414	Naphthalene		0.08	< DL	0.08	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.09	< DL	0.05	
37	84	19.779	N-Nitrosodi-n-butylamine		0.00	< DL	19.78	
38	107	20.573	4-Chloro-3-methylphenol		1.10	< DL	0.03	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	152.95	53.77	0.09	
45	162	23.093	2-Chloronaphthalene	0.05	< DL	0.13	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.19	
47	163	24.945	Dimethylphthalate	0.02	< DL	0.06	
48	152	25.078	Acenaphthylene	0.01	< DL	0.05	
49	165	25.268	2,6-Dinitrotoluene	0.62	< DL	0.14	
50	164	25.898	Acenaphthene d10	101.48	40.00	0.07	
51	154	26.119	Acenaphthene	1.24	< DL	0.14	
52	138	26.138	3-Nitroaniline	0.01	< DL	0.37	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.19	< DL	0.17	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.01	< DL	0.48	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.07	< DL	0.10	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.01	< DL	0.06	
62	149	29.058	Diethylphthalate	0.37	< DL	0.20	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.14	< DL	0.28	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.75	< DL	0.12	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.07	< DL	0.03	
68	330	29.900	2,4,6-Tribromophenol	49.90	107.84	0.10	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.02	< DL	0.04	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.11	< DL	0.10	
75	188	31.795	Phenanthrene d10	132.38	40.00	0.04	
76	178	31.871	Phenanthrene	0.24	< DL	0.08	
77	178	31.871	Anthracene	0.24	< DL	0.08	
78	149	33.316	Di-n-butylphthalate	99.52	18.04	0.03	— 600 ug/kg
79	202	34.450	Fluoranthene	0.39	< DL	0.03	
80	184	34.799	Benzidine	2.16	2.53	0.41	trace
81	202	34.894	Pyrene	2.71	< DL	0.04	
82	244	35.224	Terphenyl d14	172.07	100.79	0.01	
83	149	36.132	Butylbenzylphthalate	0.49	< DL	0.03	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.47	< DL	0.00	
86	149	37.142	Bis(2-ethylhexyl)phthalate	2.16	1.11	0.02	trace
87	240	37.142	Chrysene d12	60.53	40.00	0.04	
88	228	37.180	Chrysene	0.47	< DL	0.08	
89	149	38.418	Di-n-octylphthalate	0.16	< DL	0.03	
90	252	39.389	Benzo(b)fluoranthene	0.15	< DL	0.02	
91	252	39.452	Benzo(k)fluoranthene	0.15	< DL	0.08	
92	252	40.239	Benzo(a)pyrene	0.15	< DL	0.11	
93	264	40.378	Perylene d12	30.28	40.00	0.03	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

3501004.D

Chemron Inc
QC Summary Report

Data File 3501004.D
Sample Desc. 33565 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 11:27 am
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.71	1,4-Dichlorobenzene d4	40.00	Pass	47.11	50.05
2	17.24	Napthalene d8	40.00	Pass	173.11	166.71
3	25.83	Acenaphthene d10	40.00	Pass	98.91	101.48
4	31.75	Phenanthrene d10	40.00	Pass	141.32	132.38
5	37.10	Chrysene d12	40.00	Pass	57.39	60.53
6	40.35	Perylene d12	40.00	Pass	27.23	30.28

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	85.09	43
10.70	Phenol d5	200.00	Pass	82.12	41
14.11	Nitrobenzene d5	100.00	Pass	37.79	38
22.66	2-Fluorobiphenyl	100.00	Pass	53.77	54
29.80	2,4,6-Tribromophenol	200.00	Pass	107.84	54
35.21	Terphenyl d14	100.00	Pass	100.79	101

3501004.D

3C

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMRON, INC. Contract: OPTECH

Lab Code: CHMRON Case No.: _____ SAS No.: _____ SDG No.: 33579

Matrix Spike - EPA Sample No.: 33580

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC. LIMITS REC.
Phenol	200	0	76	38		5-112
2-Chlorophenol	200	0	81	41		23-134
1,4-Dichlorobenzene	100	0	36	36		20-124
N-Nitroso-di-n-prop.(	100	0	45	45		10-230
1,2,4-Trichlorobenzen	100	0	85	85		44-142
4-Chloro-3-methylphen	200	0	95	47		22-147
Acenaphthene	100	0	51	51		47-145
4-Nitrophenol	200	0	205	102		10-132
2,4-Dinitrotoluene	100	0	59	59		39-139
Pentachlorophenol	200	0	134	67		14-176
Pyrene	100	0	56	56		52-115

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	REC.
Phenol	200	77	38		0		35	5-112
2-Chlorophenol	200	76	38		8		50	23-134
1,4-Dichlorobenzene	100	34	34		6		27	20-124
N-Nitroso-di-n-prop.(	100	48	48		6		38	10-230
1,2,4-Trichlorobenzen	100	79	79		7		23	44-142
4-Chloro-3-methylphen	200	96	48		2		33	22-147
Acenaphthene	100	53	53		4		19	47-145
4-Nitrophenol	200	207	104		2		50	10-132
2,4-Dinitrotoluene	100	59	59		0		47	39-139
Pentachlorophenol	200	118	59		13		47	14-176
Pyrene	100	67	67		18		36	52-115

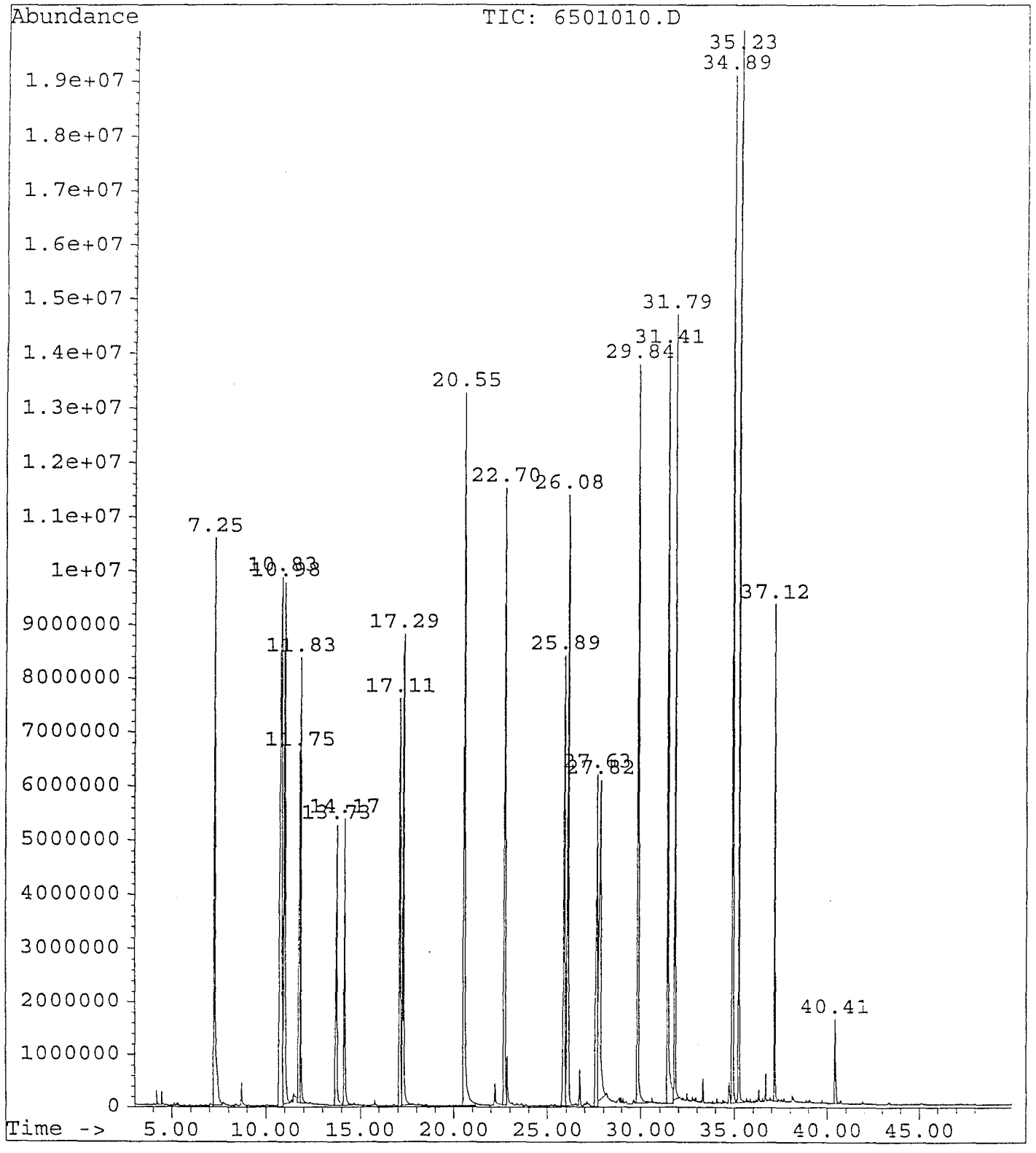
(1) N-Nitroso-di-n-propylamine

\# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

File: C:\CHEMPC\DATA\6501010.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 6:32 pm
Method File: 1118.M
Sample Name: 33580MSR OPTECH, INC.
Misc Info: HP 5970II ex: 01/26/94 30g/1mL BNA
ALS vial: 65



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 6501010.D
Sample Desc. 33580MSR OPTECH, INC.
Misc. Info. HP 5970II ex: 01/26/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 6:32 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.09	< DL	0.08	
3	42	5.880	N-Nitrosomethylethylamine		0.02	< DL	0.03	
4	112	7.383	2-Fluorophenol		121.58	98.79	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.00	< DL	10.59	
7	99	10.867	Phenol d5		160.54	95.60	0.10	
8	94	10.899	Phenol		156.73	75.88	0.07	
9	93	11.006	Bis(2-chloroethyl)ether		2.75	1.63	0.03	trace
10	128	11.018	2-Chlorophenol		133.20	81.44	0.04	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		48.72	40.00	0.01	
13	146	11.837	1,4-Dichlorobenzene		74.84	35.98	0.01	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.02	< DL	0.05	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.06	< DL	0.09	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		55.04	44.75	0.17	
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		67.44	36.82	0.10	
23	77	14.332	Nitrobenzene		0.30	< DL	0.17	
24	82	15.484	Isophorone		0.00	< DL	0.02	
25	139	15.692	2-Nitrophenol		0.09	< DL	0.00	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.07	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.51	< DL	0.13	
29	180	17.110	1,2,4-Trichlorobenzene		72.37	84.72	0.00	
30	136	17.300	Napthalene d8		171.89	40.00	0.01	
31	128	17.414	Naphthalene		0.19	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.02	< DL	0.07	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.05	< DL	0.01	
37	84	19.779	N-Nitrosodi-n-butylamine		0.02	< DL	0.15	
38	107	20.573	4-Chloro-3-methylphenol		139.16	94.91	0.02	
39	115	20.763	2-Methylnaphthalene		1.72	1.87	0.21	trace
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	156.37	55.37	0.05	
45	162	23.093	2-Chloronaphthalene	0.03	< DL	0.10	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.07	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.07	< DL	0.04	
49	165	25.268	2,6-Dinitrotoluene	0.05	< DL	0.09	
50	164	25.898	Acenaphthene d10	100.75	40.00	0.03	
51	154	26.119	Acenaphthene	133.06	50.55	0.04	
52	138	26.138	3-Nitroaniline	0.05	< DL	0.04	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.32	< DL	0.06	
56	165	27.710	2,4-Dinitrotoluene	81.33	58.97	0.08	
57	143	27.792	1-Naphthylamine	0.03	< DL	0.01	
58	139	27.849	4-Nitrophenol	107.26	204.71	0.03	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.70	< DL	0.03	
60	143	28.261	2-Naphthylamine	0.01	< DL	0.03	
61	166	28.925	Fluorene	0.02	< DL	0.29	
62	149	29.058	Diethylphthalate	0.29	< DL	0.13	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.18	< DL	0.34	
66	169	29.666	N-Nitroso-di-n-phenylamine **	2.23	1.23	0.17	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.06	< DL	0.11	
68	330	29.900	2,4,6-Tribromophenol	61.38	133.61	0.04	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.02	< DL	0.02	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	68.58	133.66	0.03	
74	169	31.472	4-Aminobiphenyl	9.00	5.12	0.07	trace
75	188	31.795	Phenanthrene d10	126.80	40.00	0.01	
76	178	31.871	Phenanthrene	0.17	< DL	0.05	
77	178	31.871	Anthracene	0.17	< DL	0.05	
78	149	33.316	Di-n-butylphthalate	5.64	1.07	0.01	trace
79	202	34.450	Fluoranthene	0.00	< DL	34.45	
80	184	34.799	Benzidine	2.04	2.18	0.43	trace
81	202	34.894	Pyrene	196.35	55.72	0.00	
82	244	35.224	Terphenyl d14	165.12	88.49	0.01	
83	149	36.132	Butylbenzylphthalate	0.22	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.20	< DL	0.02	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.54	< DL	0.00	
87	240	37.142	Chrysene d12	66.16	40.00	0.02	
88	228	37.180	Chrysene	0.20	< DL	0.06	
89	149	38.418	Di-n-octylphthalate	0.18	< DL	0.06	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.09	< DL	0.18	
93	264	40.378	Perylene d12	20.45	40.00	0.04	
94	268	41.251	3-Methylcholanthrene	0.02	< DL	0.01	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

6501010.D

Chemron Inc
QC Summary Report

Data File 6501010.D
Sample Desc. 33580MSR OPTECH, INC.
Misc. Info. HP 5970II ex: 01/26/94 30g/1mL BNA

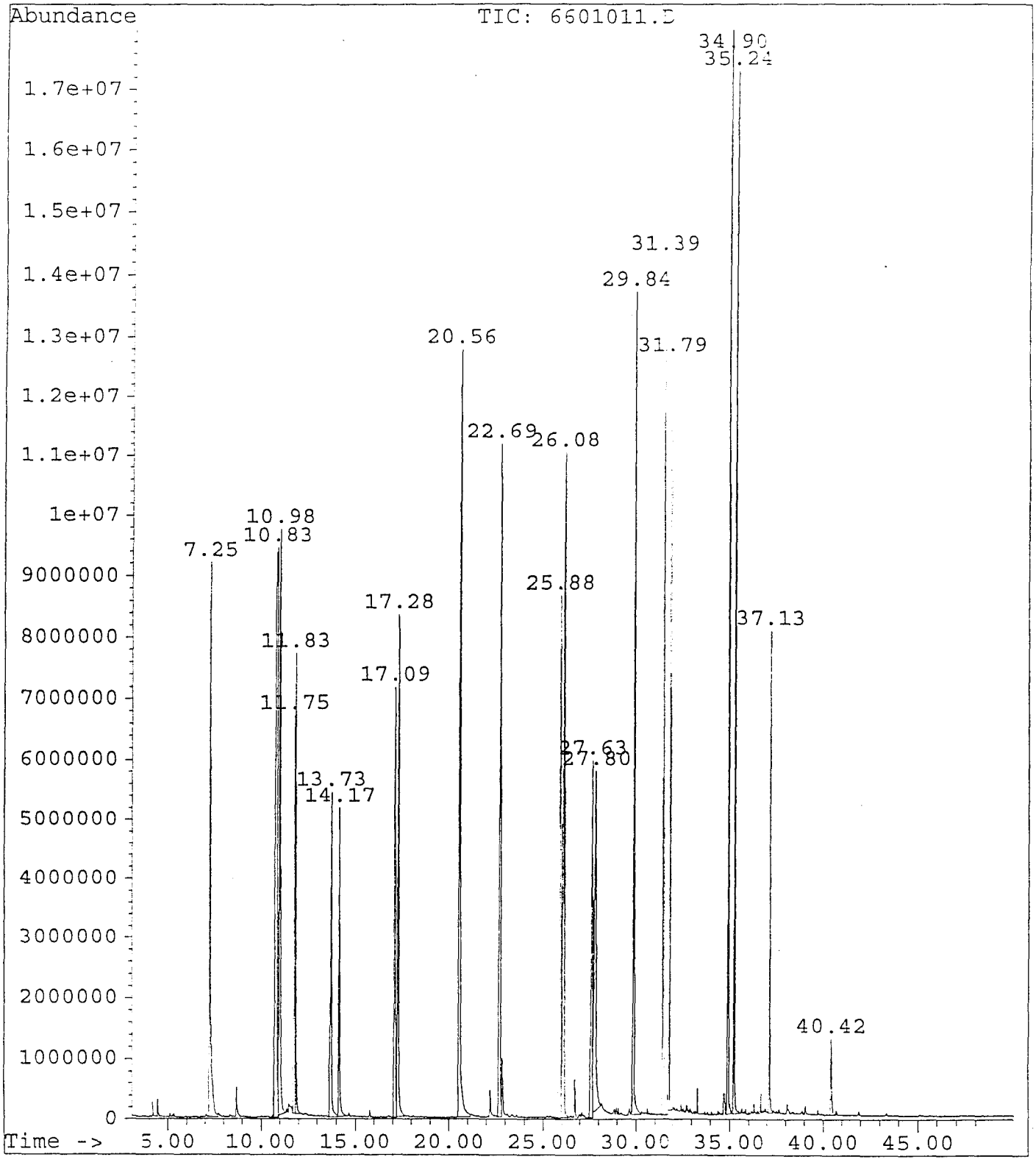
Date Analyzed: 26 Jan 94 6:32 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	49.63	48.72
2	17.29	Napthalene d8	40.00	Pass	176.60	171.89
3	25.87	Acenaphthene d10	40.00	Pass	103.11	100.75
4	31.79	Phenanthrene d10	40.00	Pass	131.76	126.80
5	37.12	Chrysene d12	40.00	Pass	57.36	66.16
6	40.41	Perylene d12	40.00	Pass	19.82	20.45

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	98.79	49
10.77	Phenol d5	200.00	Pass	95.60	48
14.17	Nitrobenzene d5	100.00	Pass	36.82	37
22.70	2-Fluorobiphenyl	100.00	Pass	55.37	55
29.86	2,4,6-Tribromophenol	200.00	Pass	133.61	67
35.23	Terphenyl d14	100.00	Pass	88.49	88

6501010.D

File: C:\CHEMPC\DATA\6601011.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 7:33 pm
Method File: 1118.M
Sample Name: 33580MSDR OPTECH, INC.
Misc Info: HP 5970II ex: 01/26/94 30g/1mL BNA
ALS vial: 66



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 6601011.D
Sample Desc. 33580MSDR OPTECH, IN
Misc. Info. HP 5970II ex: 01/26/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 7:33 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/mL)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.02	< DL	0.06	
3	42	5.880	N-Nitrosomethylethylamine		0.02	< DL	0.05	
4	112	7.383	2-Fluorophenol		108.42	94.84	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.04	< DL	0.05	
7	99	10.867	Phenol d5		151.16	96.90	0.12	
8	94	10.899	Phenol		147.12	76.68	0.07	
9	93	11.006	Bis(2-chloroethyl)ether		2.46	1.57	0.03	trace
10	128	11.018	2-Chlorophenol		115.91	76.28	0.04	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		45.26	40.00	0.01	
13	146	11.837	1,4-Dichlorobenzene		66.03	34.18	0.01	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.18	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.01	< DL	0.01	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		54.64	47.81	0.16	
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.09	
22	82	14.263	Nitrobenzene d5		64.18	37.17	0.09	
23	77	14.332	Nitrobenzene		0.32	< DL	0.16	
24	82	15.484	Isophorone		0.07	< DL	0.02	
25	139	15.692	2-Nitrophenol		0.07	< DL	0.00	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.06	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.18	
28	162	16.902	2,4-Dichlorophenol		0.45	< DL	0.15	
29	180	17.110	1,2,4-Trichlorobenzene		63.72	79.13	0.02	
30	136	17.300	Napthalene d8		162.05	40.00	0.02	
31	128	17.414	Naphthalene		0.22	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.02	< DL	0.09	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.07	< DL	0.06	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.03	
38	107	20.573	4-Chloro-3-methylphenol		132.29	95.71	0.02	
39	115	20.763	2-Methylnaphthalene		1.67	1.92	0.20	trace
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	146.08	56.52	0.06	
45	162	23.093	2-Chloronaphthalene	0.02	< DL	0.10	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.01	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.06	< DL	0.05	
49	165	25.268	2,6-Dinitrotoluene	0.06	< DL	0.09	
50	164	25.898	Acenaphthene d10	92.20	40.00	0.02	
51	154	26.119	Acenaphthene	126.73	52.61	0.03	
52	138	26.138	3-Nitroaniline	0.14	< DL	0.05	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.33	< DL	0.08	
56	165	27.710	2,4-Dinitrotoluene	74.04	58.67	0.08	
57	143	27.792	1-Naphthylamine	0.01	< DL	0.05	
58	139	27.849	4-Nitrophenol	99.42	207.34	0.05	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.60	< DL	0.04	
60	143	28.261	2-Naphthylamine	0.01	< DL	0.00	
61	166	28.925	Fluorene	0.01	< DL	0.03	
62	149	29.058	Diethylphthalate	0.32	< DL	0.12	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.17	< DL	0.34	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.94	1.14	0.18	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.02	< DL	0.04	
68	330	29.900	2,4,6-Tribromophenol	60.93	144.92	0.06	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.02	< DL	0.02	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.01	< DL	0.15	
73	266	31.433	Pentachlorophenol	56.96	117.61	0.04	
74	169	31.472	4-Aminobiphenyl	8.01	4.83	0.08	trace
75	188	31.795	Phenanthrene d10	119.70	40.00	0.00	
76	178	31.871	Phenanthrene	0.15	< DL	0.04	
77	178	31.871	Anthracene	0.15	< DL	0.04	
78	149	33.316	Di-n-butylphthalate	4.74	< DL	0.03	
79	202	34.450	Fluoranthene	0.00	< DL	34.45	
80	184	34.799	Benzidine	1.97	2.69	0.44	trace
81	202	34.894	Pyrene	184.43	66.76	0.00	
82	244	35.224	Terphenyl d14	165.40	113.05	0.01	
83	149	36.132	Butylbenzylphthalate	0.22	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.19	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.32	< DL	0.01	
87	240	37.142	Chrysene d12	51.87	40.00	0.01	
88	228	37.180	Chrysene	0.19	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.27	< DL	0.08	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.08	< DL	0.18	
93	264	40.378	Perylene d12	16.35	40.00	0.04	
94	268	41.251	3-Methylcholanthrene	0.07	< DL	0.06	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

6601011.D

Chemron Inc
QC Summary Report

Data File 6601011.D
Sample Desc. 33580MSDR OPTECH, INC.
Misc. Info. HP 5970II ex: 01/26/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 7:33 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.75	1,4-Dichlorobenzene d4	40.00	Pass	49.63	45.26
2	17.28	Napthalene d8	40.00	Pass	176.60	162.05
3	25.88	Acenaphthene d10	40.00	Pass	103.11	92.20
4	31.79	Phenanthrene d10	40.00	Pass	131.76	119.70
5	37.13	Chrysene d12	40.00	Pass	57.36	51.87
6	40.42	Perylene d12	40.00	Pass	19.82	16.35

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	94.84	47
10.75	Phenol d5	200.00	Pass	96.90	48
14.17	Nitrobenzene d5	100.00	Pass	37.17	37
22.69	2-Fluorobiphenyl	100.00	Pass	56.52	57
29.84	2,4,6-Tribromophenol	200.00	Pass	144.92	72
35.24	Terphenyl d14	100.00	Pass	113.05	113

6601011.D

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33580
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-005BH 6-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/26/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/26/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/26/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/26/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/26/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/26/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/26/94	8270
Isophorone	0.33	MG/KG	ND	01/26/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/26/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/26/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/26/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/26/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Naphthalene	0.33	MG/KG	ND	01/26/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/26/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/26/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/26/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/26/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/26/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/26/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/26/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/26/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/26/94	8270

CHEMRON
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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33580

SEMI-VOLATILES ANALYSIS REPORT

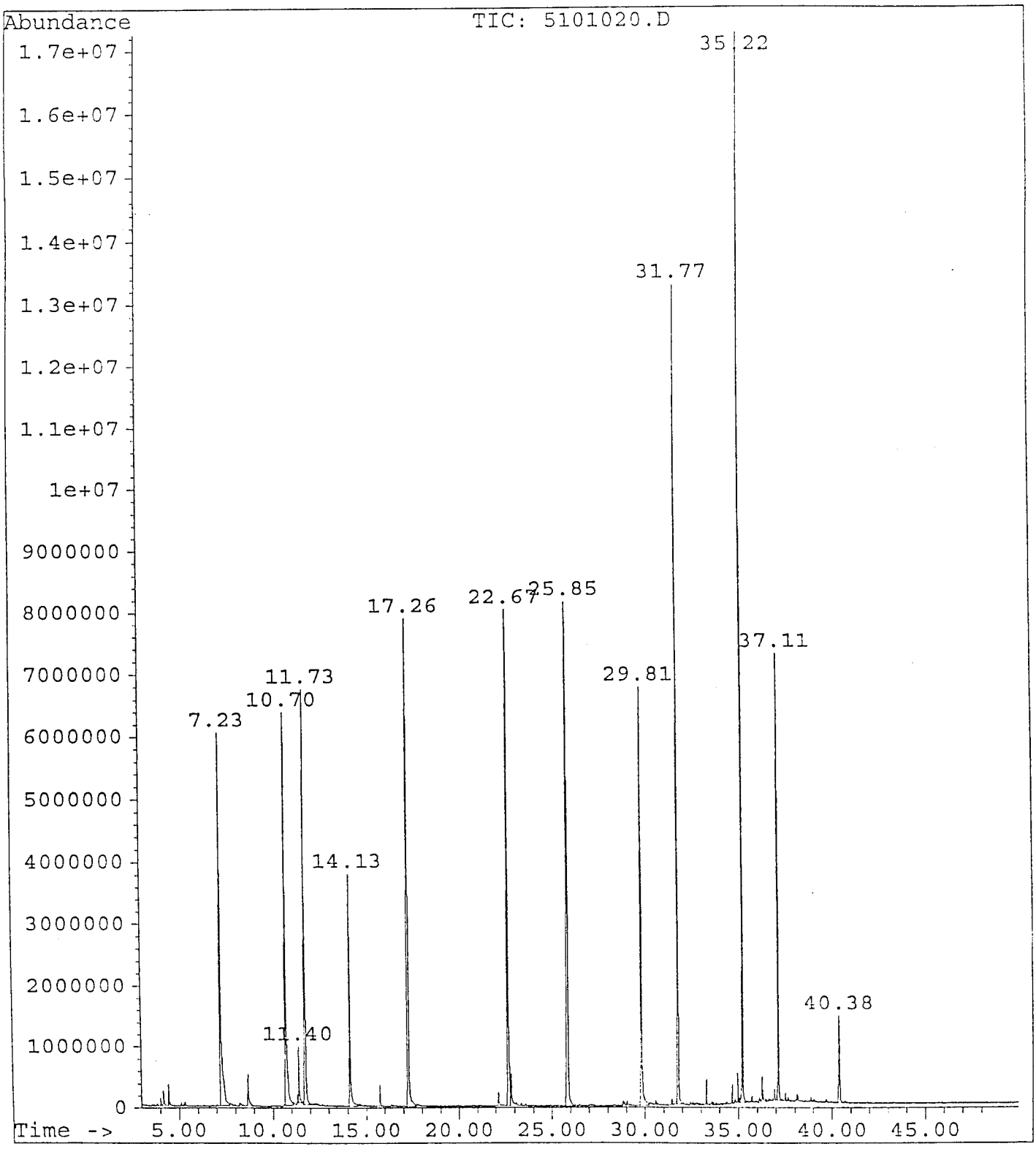
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Acenaphthene	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/26/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/26/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Fluorene	0.33	MG/KG	ND	01/26/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/26/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/26/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/26/94	8270
Phenanthrene	0.33	MG/KG	ND	01/26/94	8270
Anthracene	0.33	MG/KG	ND	01/26/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/26/94	8270
Fluoranthene	0.33	MG/KG	ND	01/26/94	8270
Pyrene	0.40	MG/KG	ND	01/26/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/26/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/26/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/26/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/26/94	8270
Chrysene	0.33	MG/KG	ND	01/26/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/26/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/26/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/26/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/26/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/26/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/26/94	8270

ND - Not Detected

Approved By: R. Acuna

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\5101020.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 3:08 am
Method File: 1118.M
Sample Name: 33580 optech
Misc Info: HP 5970II ex: 01/21/94 30g/1mL BNA
ALS vial: 51



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 5101020.D
Sample Desc. 33580 optech
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 3:08 am
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/mL)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.09	< DL	0.00	
3	42	5.880	N-Nitrosomethylethylamine		0.05	< DL	0.06	
4	112	7.383	2-Fluorophenol		70.98	68.61	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.06	
7	99	10.867	Phenol d5		100.55	71.23	0.17	
8	94	10.899	Phenol		0.16	< DL	0.14	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.03	
10	128	11.018	2-Chlorophenol		0.09	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		40.96	40.00	0.03	
13	146	11.837	1,4-Dichlorobenzene		0.00	< DL	11.84	
14	146	12.404	1,2-Dichlorobenzene		0.02	< DL	0.03	
15	108	12.649	Benzyl alcohol		0.05	< DL	0.03	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.07	< DL	0.12	
17	108	13.493	2-Methylphenol		0.01	< DL	0.36	
18	105	13.689	Acetophenone		0.08	< DL	0.11	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		6.16	5.96	0.23	trace
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		43.55	26.92	0.13	
23	77	14.332	Nitrobenzene		0.05	< DL	0.01	
24	82	15.484	Isophorone		0.02	< DL	0.15	
25	139	15.692	2-Nitrophenol		0.01	< DL	0.06	
26	122	16.278	2,4-Dimethylphenol		0.00	< DL	16.28	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.27	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.01	< DL	0.02	
30	136	17.300	Napthalene d8		151.81	40.00	0.04	
31	128	17.414	Naphthalene		0.07	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.04	< DL	0.05	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.02	
38	107	20.573	4-Chloro-3-methylphenol		0.00	< DL	20.57	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	98.03	41.44	0.09	
45	162	23.093	2-Chloronaphthalene	0.00	< DL	23.09	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.19	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.00	< DL	25.27	
50	164	25.898	Acenaphthene d10	84.39	40.00	0.05	
51	154	26.119	Acenaphthene	0.28	< DL	0.27	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.01	< DL	0.06	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.17	< DL	0.17	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.07	< DL	0.31	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.02	< DL	0.14	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.25	< DL	0.07	
68	330	29.900	2,4,6-Tribromophenol	22.62	58.79	0.09	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.03	< DL	0.06	
75	188	31.795	Phenanthrene d10	117.44	40.00	0.03	
76	178	31.871	Phenanthrene	0.09	< DL	0.10	
77	178	31.871	Anthracene	0.09	< DL	0.10	
78	149	33.316	Di-n-butylphthalate	5.82	1.19	0.02	trace
79	202	34.450	Fluoranthene	0.04	< DL	0.02	
80	184	34.799	Benzidine	1.82	3.23	0.42	trace
81	202	34.894	Pyrene	0.09	< DL	0.03	
82	244	35.224	Terphenyl d14	146.16	129.69	0.00	
83	149	36.132	Butylbenzylphthalate	0.32	< DL	0.02	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.55	< DL	0.01	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.38	1.07	0.01	trace
87	240	37.142	Chrysene d12	39.96	40.00	0.03	
88	228	37.180	Chrysene	0.55	< DL	0.07	
89	149	38.418	Di-n-octylphthalate	0.11	< DL	0.08	
90	252	39.389	Benzo(b)fluoranthene	0.15	< DL	0.01	
91	252	39.452	Benzo(k)fluoranthene	0.15	< DL	0.05	
92	252	40.239	Benzo(a)pyrene	0.15	< DL	0.84	
93	264	40.378	Perylene d12	16.39	40.00	0.00	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

5101020.D

Chemron Inc
QC Summary Report

Data File 5101020.D
Sample Desc. 33580 optech
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 3:08 am
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.73	1,4-Dichlorobenzene d4	40.00	Pass	49.83	40.96
2	17.26	Napthalene d8	40.00	Pass	182.13	151.81
3	25.85	Acenaphthene d10	40.00	Pass	105.33	84.39
4	31.77	Phenanthrene d10	40.00	Pass	140.38	117.44
5	37.11	Chrysene d12	40.00	Pass	62.00	39.96
6	40.38	Perylene d12	40.00	Pass	27.57	16.39

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	68.61	34
10.70	Phenol d5	200.00	Pass	71.23	36
14.13	Nitrobenzene d5	100.00	Pass	26.92	27
22.67	2-Fluorobiphenyl	100.00	Pass	41.44	41
29.81	2,4,6-Tribromophenol	200.00	Pass	58.79	29
35.22	Terphenyl d14	100.00	Pass	129.69	130

5101020.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/27/94
Chemron Sample #: 33579
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-005BH 1-2

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/26/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/26/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/26/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/26/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/26/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/26/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/26/94	8270
Isophorone	0.33	MG/KG	ND	01/26/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/26/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/26/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/26/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/26/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Naphthalene	0.33	MG/KG	ND	01/26/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/26/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/26/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/26/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/26/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/26/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/26/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/26/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/26/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/26/94	8270

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Chemron Sample #: 33579

SEMI-VOLATILES ANALYSIS REPORT

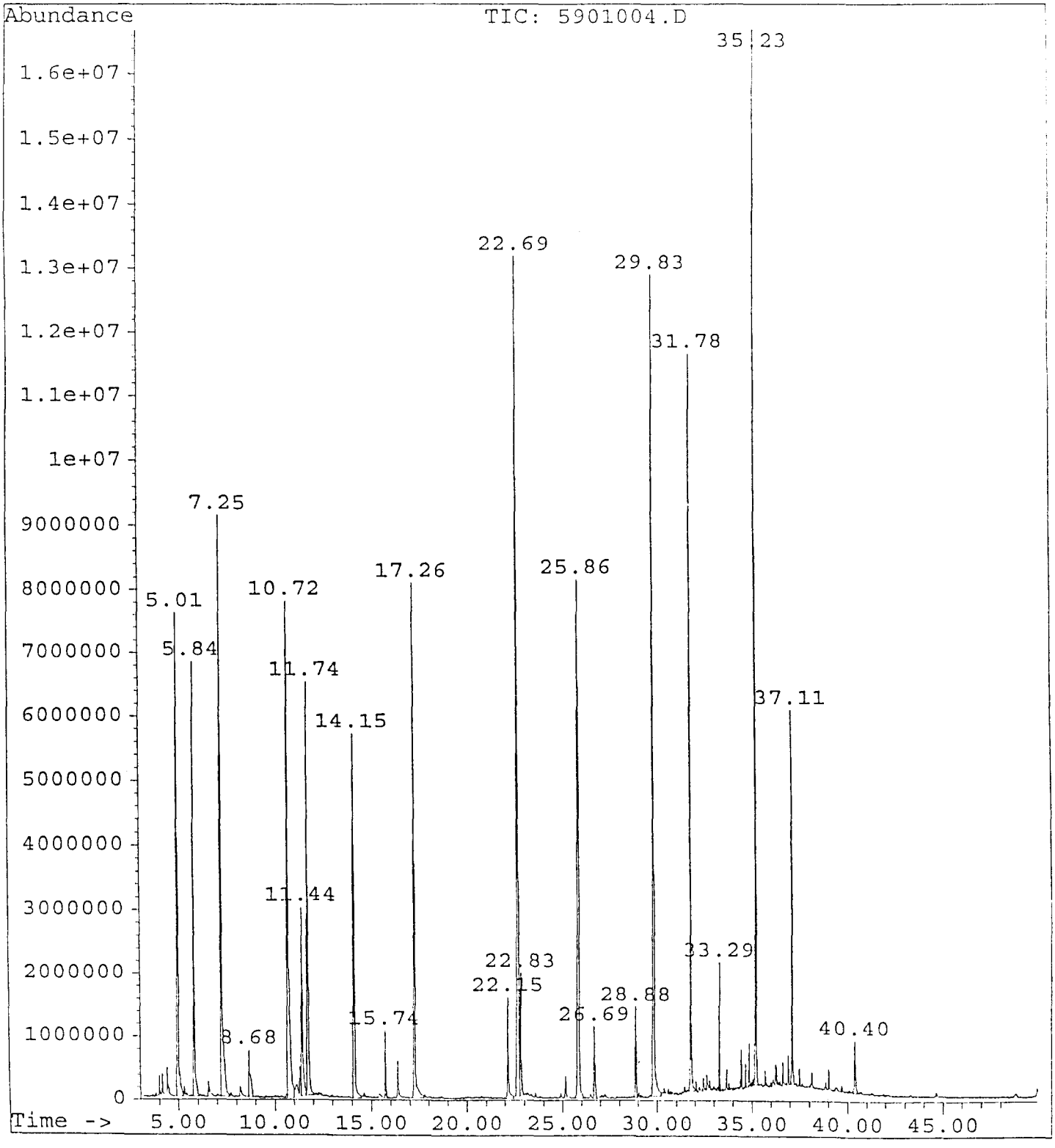
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Acenaphthene	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/26/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/26/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Fluorene	0.33	MG/KG	ND	01/26/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/26/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/26/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/26/94	8270
Phenanthrene	0.33	MG/KG	ND	01/26/94	8270
Anthracene	0.33	MG/KG	ND	01/26/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/26/94	8270
Fluoranthene	0.33	MG/KG	ND	01/26/94	8270
Pyrene	0.40	MG/KG	ND	01/26/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/26/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/26/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/26/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/26/94	8270
Chrysene	0.33	MG/KG	ND	01/26/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/26/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/26/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/26/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/26/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/26/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/26/94	8270

ND - Not Detected

Approved By: R. Ellman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\5901004.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 12:35 pm
Method File: 1118.M
Sample Name: 33579 OPTECH, INC.
Misc Info: HP 5970II ex: 01/21/94 30g/1mL BNA
ALS vial: 59



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 5901004.D
Sample Desc. 33579 OPTECH, INC.
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 12:35 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.00	< DL	3.76	
3	42	5.880	N-Nitrosomethylethylamine		8.19	8.87	0.04	trace
4	112	7.383	2-Fluorophenol		111.78	102.15	0.13	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.05	< DL	0.06	
7	99	10.867	Phenol d5		175.01	117.20	0.15	
8	94	10.899	Phenol		0.46	< DL	0.14	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.02	
10	128	11.018	2-Chlorophenol		0.16	< DL	0.05	
11	146	11.497	1,3-Dichlorobenzene		0.01	< DL	0.02	
12	152	11.762	1,4-Dichlorobenzene d4		43.33	40.00	0.02	
13	146	11.837	1,4-Dichlorobenzene		0.02	< DL	0.04	
14	146	12.404	1,2-Dichlorobenzene		0.02	< DL	0.02	
15	108	12.649	Benzyl alcohol		0.01	< DL	0.01	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.04	< DL	0.04	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.21	< DL	0.12	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		9.92	9.07	0.26	trace
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.12	
22	82	14.263	Nitrobenzene d5		75.33	46.22	0.11	
23	77	14.332	Nitrobenzene		0.02	< DL	0.01	
24	82	15.484	Isophorone		0.04	< DL	0.04	
25	139	15.692	2-Nitrophenol		0.03	< DL	0.04	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.06	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.13	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.02	< DL	0.04	
30	136	17.300	Naphthalene d8		152.95	40.00	0.04	
31	128	17.414	Naphthalene		0.25	< DL	0.07	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.02	< DL	0.09	
37	84	19.779	N-Nitrosodi-n-butylamine		0.10	< DL	0.08	
38	107	20.573	4-Chloro-3-methylphenol		0.01	< DL	0.05	
39	115	20.763	2-Methylnaphthalene		0.03	< DL	0.03	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	176.22	73.32	0.06	
45	162	23.093	2-Chloronaphthalene	0.02	< DL	0.12	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.08	
47	163	24.945	Dimethylphthalate	0.12	< DL	0.04	
48	152	25.078	Acenaphthylene	0.03	< DL	0.09	
49	165	25.268	2,6-Dinitrotoluene	1.01	1.22	0.10	trace
50	164	25.898	Acenaphthene d10	85.74	40.00	0.03	
51	154	26.119	Acenaphthene	0.16	< DL	0.10	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.12	< DL	0.09	
56	165	27.710	2,4-Dinitrotoluene	0.02	< DL	0.13	
57	143	27.792	1-Naphthylamine	0.01	< DL	0.15	
58	139	27.849	4-Nitrophenol	0.05	< DL	0.66	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.01	< DL	0.22	
61	166	28.925	Fluorene	0.18	< DL	0.04	
62	149	29.058	Diethylphthalate	2.80	< DL	0.18	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.01	< DL	0.24	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.16	< DL	0.32	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.96	1.18	0.16	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.17	< DL	0.08	
68	330	29.900	2,4,6-Tribromophenol	45.10	115.35	0.07	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.01	< DL	0.03	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.23	< DL	0.09	
75	188	31.795	Phenanthrene d10	116.76	40.00	0.02	
76	178	31.871	Phenanthrene	3.43	1.03	0.06	trace
77	178	31.871	Anthracene	0.75	< DL	0.08	
78	149	33.316	Di-n-butylphthalate	20.52	4.22	0.02	trace
79	202	34.450	Fluoranthene	5.44	1.44	0.02	trace
80	184	34.799	Benzidine	0.15	< DL	0.14	
81	202	34.894	Pyrene	5.84	2.80	0.03	trace
82	244	35.224	Terphenyl d14	75.38	68.11	0.01	
83	149	36.132	Butylbenzylphthalate	0.62	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.01	< DL	0.00	
85	228	37.100	Benzo(a)anthracene	1.26	1.31	0.01	trace
86	149	37.142	Bis(2-ethylhexyl)phthalate	2.14	1.69	0.01	trace
87	240	37.142	Chrysene d12	39.24	40.00	0.03	
88	228	37.180	Chrysene	1.26	1.24	0.09	trace
89	149	38.418	Di-n-octylphthalate	0.17	< DL	0.07	
90	252	39.389	Benzo(b)fluoranthene	0.89	1.76	0.00	trace
91	252	39.452	Benzo(k)fluoranthene	0.89	1.88	0.06	trace
92	252	40.239	Benzo(a)pyrene	0.34	< DL	0.00	
93	264	40.378	Perylene d12	10.69	40.00	0.02	
94	268	41.251	3-Methylcholanthrene	0.01	< DL	0.40	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.12	< DL	0.07	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.10	< DL	0.11	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

5901004.D

Chemron Inc
QC Summary Report

Data File 5901004.D
Sample Desc. 33579 OPTECH, INC.
Misc. Info. HP 5970II ex: 01/21/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 12:35 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.74	1,4-Dichlorobenzene d4	40.00	Pass	49.63	43.33
2	17.26	Napthalene d8	40.00	Pass	176.60	152.95
3	25.86	Acenaphthene d10	40.00	Pass	103.11	85.74
4	31.78	Phenanthrene d10	40.00	Pass	131.76	116.76
5	37.11	Chrysene d12	40.00	Pass	57.36	39.24
6	40.40	Perylene d12	40.00	Pass	19.82	10.69

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	102.15	51
10.72	Phenol d5	200.00	Pass	117.20	59
14.15	Nitrobenzene d5	100.00	Pass	46.22	46
22.69	2-Fluorobiphenyl	100.00	Pass	73.32	73
29.83	2,4,6-Tribromophenol	200.00	Pass	115.35	58
35.23	Terphenyl d14	100.00	Pass	68.11	68

5901004.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33568
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-004BH 7-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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Chemron Sample #: 33568

SEMI-VOLATILES ANALYSIS REPORT

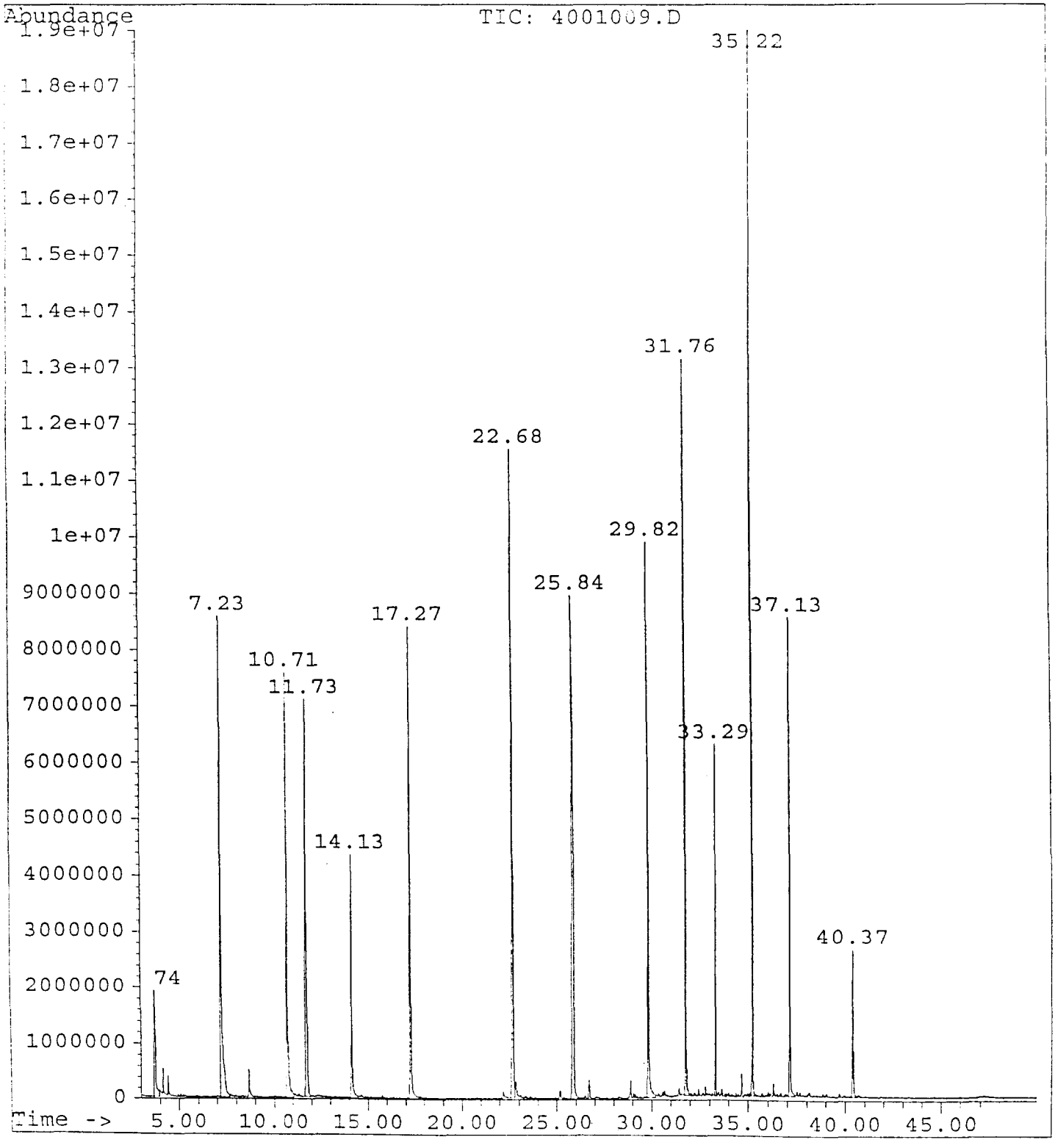
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	0.45	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Ackman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\4001009.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 4:24 pm
Method File: 1118.M
Sample Name: 33568 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 40



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 4001009.D
Sample Desc. 33568 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 4:24 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		1.79	1.84	0.02	trace
3	42	5.880	N-Nitrosomethylethylamine		0.02	< DL	0.05	
4	112	7.383	2-Fluorophenol		93.27	74.61	0.16	
5	102	7.987	N-Nitrosodiethylamine		0.01	< DL	0.16	
6	93	10.590	Aniline		0.00	< DL	10.59	
7	99	10.867	Phenol d5		123.49	72.39	0.15	
8	94	10.899	Phenol		0.54	< DL	0.15	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.14	
10	128	11.018	2-Chlorophenol		0.29	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		49.49	40.00	0.03	
13	146	11.837	1,4-Dichlorobenzene		0.11	< DL	0.05	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.01	< DL	0.05	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.01	< DL	0.07	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		7.52	6.02	0.23	trace
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		57.86	33.18	0.14	
23	77	14.332	Nitrobenzene		0.29	< DL	0.21	
24	82	15.484	Isophorone		0.04	< DL	0.02	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.05	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.08	< DL	0.03	
30	136	17.300	Napthalene d8		163.64	40.00	0.03	
31	128	17.414	Naphthalene		0.08	< DL	0.07	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.01	< DL	0.20	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.19	
38	107	20.573	4-Chloro-3-methylphenol		0.05	< DL	0.16	
39	115	20.763	2-Methylnaphthalene		0.01	< DL	0.01	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	142.93	51.45	0.08	
45	162	23.093	2-Chloronaphthalene	0.03	< DL	0.11	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.10	
47	163	24.945	Dimethylphthalate	0.02	< DL	0.22	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.44	< DL	0.10	
50	164	25.898	Acenaphthene d10	99.09	40.00	0.06	
51	154	26.119	Acenaphthene	0.11	< DL	0.13	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.06	< DL	0.13	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.27	< DL	0.17	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.11	< DL	0.32	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.47	< DL	0.13	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.06	< DL	0.01	
68	330	29.900	2,4,6-Tribromophenol	36.28	80.28	0.08	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.02	< DL	0.31	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.16	< DL	0.18	
74	169	31.472	4-Aminobiphenyl	0.03	< DL	0.07	
75	188	31.795	Phenanthrene d10	135.06	40.00	0.03	
76	178	31.871	Phenanthrene	0.11	< DL	0.09	
77	178	31.871	Anthracene	0.11	< DL	0.09	
78	149	33.316	Di-n-butylphthalate	75.31	13.38	0.02	— 450 ug/kg
79	202	34.450	Fluoranthene	0.33	< DL	0.43	
80	184	34.799	Benzidine	1.93	2.26	0.42	trace
81	202	34.894	Pyrene	0.37	< DL	0.01	
82	244	35.224	Terphenyl d14	176.17	103.48	0.00	
83	149	36.132	Butylbenzylphthalate	0.42	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.24	< DL	0.03	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.86	< DL	0.01	
87	240	37.142	Chrysene d12	60.36	40.00	0.01	
88	228	37.180	Chrysene	0.24	< DL	0.05	
89	149	38.418	Di-n-octylphthalate	0.15	< DL	0.02	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.15	< DL	0.16	
93	264	40.378	Perylene d12	32.80	40.00	0.02	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol
** Inseparable from Diphenylamine

4001009.D

Chemron Inc
QC Summary Report

Data File 4001009.D
Sample Desc. 33568 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 4:24 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.73	1,4-Dichlorobenzene d4	40.00	Pass	47.11	49.49
2	17.27	Napthalene d8	40.00	Pass	173.11	163.64
3	25.84	Acenaphthene d10	40.00	Pass	98.91	99.09
4	31.76	Phenanthrene d10	40.00	Pass	141.32	135.06
5	37.13	Chrysene d12	40.00	Pass	57.39	60.36
6	40.39	Perylene d12	40.00	Pass	27.23	32.80

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	74.61	37
10.71	Phenol d5	200.00	Pass	72.39	36
14.13	Nitrobenzene d5	100.00	Pass	33.18	33
22.68	2-Fluorobiphenyl	100.00	Pass	51.45	51
29.82	2,4,6-Tribromophenol	200.00	Pass	80.28	40
35.22	Terphenyl d14	100.00	Pass	103.48	103

4001009.D

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Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33567
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-004BH 1-2

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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Chemron Sample #: 33567

SEMI-VOLATILES ANALYSIS REPORT

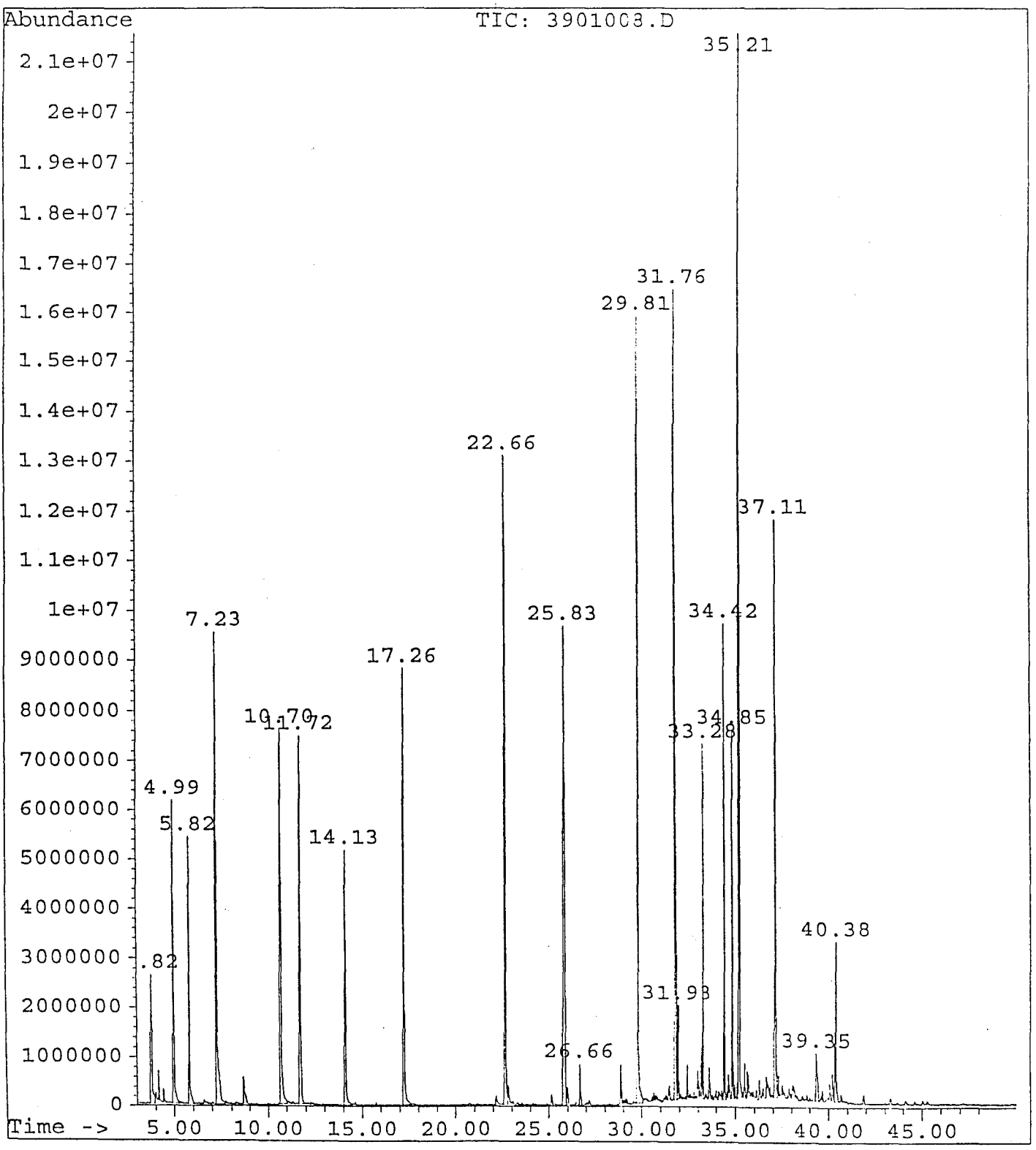
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	0.44	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	0.53	01/25/94	8270
Fluoranthene	0.33	MG/KG	0.54	01/25/94	8270
Pyrene	0.40	MG/KG	0.48	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	0.34	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Chilman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\3901008.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 3:24 pm
Method File: 1118.M
Sample Name: 33567 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 39



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 3901008.D
Sample Desc. 33567 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 3:24 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.00	< DL	3.76	
3	42	5.880	N-Nitrosomethylethylamine		6.31	5.63	0.06	trace
4	112	7.383	2-Fluorophenol		111.29	83.88	0.15	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.01	< DL	0.08	
7	99	10.867	Phenol d5		147.61	81.53	0.17	
8	94	10.899	Phenol		0.61	< DL	0.16	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.23	
10	128	11.018	2-Chlorophenol		0.22	< DL	0.08	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		52.53	40.00	0.05	
13	146	11.837	1,4-Dichlorobenzene		0.07	< DL	0.05	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.02	< DL	0.01	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.03	< DL	0.11	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		8.97	6.76	0.23	trace
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.07	
22	82	14.263	Nitrobenzene d5		69.25	36.58	0.13	
23	77	14.332	Nitrobenzene		0.02	< DL	0.05	
24	82	15.484	Isophorone		0.05	< DL	0.04	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.02	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.05	< DL	0.04	
30	136	17.300	Napthalene d8		177.69	40.00	0.04	
31	128	17.414	Naphthalene		0.27	< DL	0.08	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.03	< DL	0.22	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.02	
38	107	20.573	4-Chloro-3-methylphenol		0.04	< DL	0.13	
39	115	20.763	2-Methylnaphthalene		0.10	< DL	0.06	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	175.79	57.16	0.09	
45	162	23.093	2-Chloronaphthalene	0.03	< DL	0.15	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.19	
47	163	24.945	Dimethylphthalate	0.03	< DL	0.06	
48	152	25.078	Acenaphthylene	0.02	< DL	0.08	
49	165	25.268	2,6-Dinitrotoluene	0.66	< DL	0.12	
50	164	25.898	Acenaphthene d10	109.72	40.00	0.07	
51	154	26.119	Acenaphthene	2.72	< DL	0.14	
52	138	26.138	3-Nitroaniline	0.01	< DL	0.33	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	1.82	< DL	0.12	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.58	1.02	0.70	trace
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.05	< DL	0.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	3.67	1.10	0.08	trace
62	149	29.058	Diethylphthalate	0.59	< DL	0.17	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.01	< DL	0.25	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.22	< DL	0.31	
66	169	29.666	N-Nitroso-di-n-phenylamine **	2.56	1.21	0.14	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.14	< DL	0.02	
68	330	29.900	2,4,6-Tribromophenol	32.47	64.91	0.11	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.01	< DL	0.01	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.05	< DL	0.00	
75	188	31.795	Phenanthrene d10	148.51	40.00	0.04	
76	178	31.871	Phenanthrene	56.48	13.30	0.05	— 440 ug/kg.
77	178	31.871	Anthracene	17.67	4.19	0.06	trace
78	149	33.316	Di-n-butylphthalate	98.12	15.85	0.04	— 530 ug/kg
79	202	34.450	Fluoranthene	77.29	16.04	0.03	— 540 ug/kg
80	184	34.799	Benzidine	2.49	2.31	0.42	trace
81	202	34.894	Pyrene	58.44	14.41	0.04	— 480 ug/kg
82	244	35.224	Terphenyl d14	208.44	97.07	0.01	
83	149	36.132	Butylbenzylphthalate	0.61	< DL	0.02	
84	252	37.078	3,3-Dichlorobenzidine	0.15	< DL	0.11	
85	228	37.100	Benzo(a)anthracene	19.19	10.26	0.02	— 340 ug/kg
86	149	37.142	Bis(2-ethylhexyl)phthalate	2.58	1.05	0.01	trace
87	240	37.142	Chrysene d12	76.14	40.00	0.03	
88	228	37.180	Chrysene	17.96	9.04	0.03	trace
89	149	38.418	Di-n-octylphthalate	0.21	< DL	0.07	
90	252	39.389	Benzo(b)fluoranthene	10.19	5.87	0.03	trace
91	252	39.452	Benzo(k)fluoranthene	8.06	4.95	0.08	trace
92	252	40.239	Benzo(a)pyrene	13.94	9.67	0.03	trace
93	264	40.378	Perylene d12	36.49	40.00	0.00	
94	268	41.251	3-Methylcholanthrene	0.14	< DL	0.02	
95	276	44.141	Indeno(1,2,3-cd)pyrene	2.59	2.57	0.02	trace
96	278	44.186	Dibenz(a,h)anthracene	2.12	2.42	0.03	trace
97	276	45.251	Benzo(g,h,i)perylene	2.03	2.76	0.02	trace

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

3901008.D

Chemron Inc
QC Summary Report

Data File 3901008.D
Sample Desc. 33567 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 3:24 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.72	1,4-Dichlorobenzene d4	40.00	Pass	47.11	52.53
2	17.26	Napthalene d8	40.00	Pass	173.11	177.69
3	25.83	Acenaphthene d10	40.00	Pass	98.91	109.72
4	31.76	Phenanthrene d10	40.00	Pass	141.32	148.51
5	37.11	Chrysene d12	40.00	Pass	57.39	76.14
6	40.38	Perylene d12	40.00	Pass	27.23	36.49

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	83.88	42
10.70	Phenol d5	200.00	Pass	81.53	41
14.13	Nitrobenzene d5	100.00	Pass	36.58	37
22.66	2-Fluorobiphenyl	100.00	Pass	57.16	57
29.79	2,4,6-Tribromophenol	200.00	Pass	64.91	32
35.21	Terphenyl d14	100.00	Pass	97.07	97

3901008.D

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33564
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-003BH 6-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33564

SEMI-VOLATILES ANALYSIS REPORT

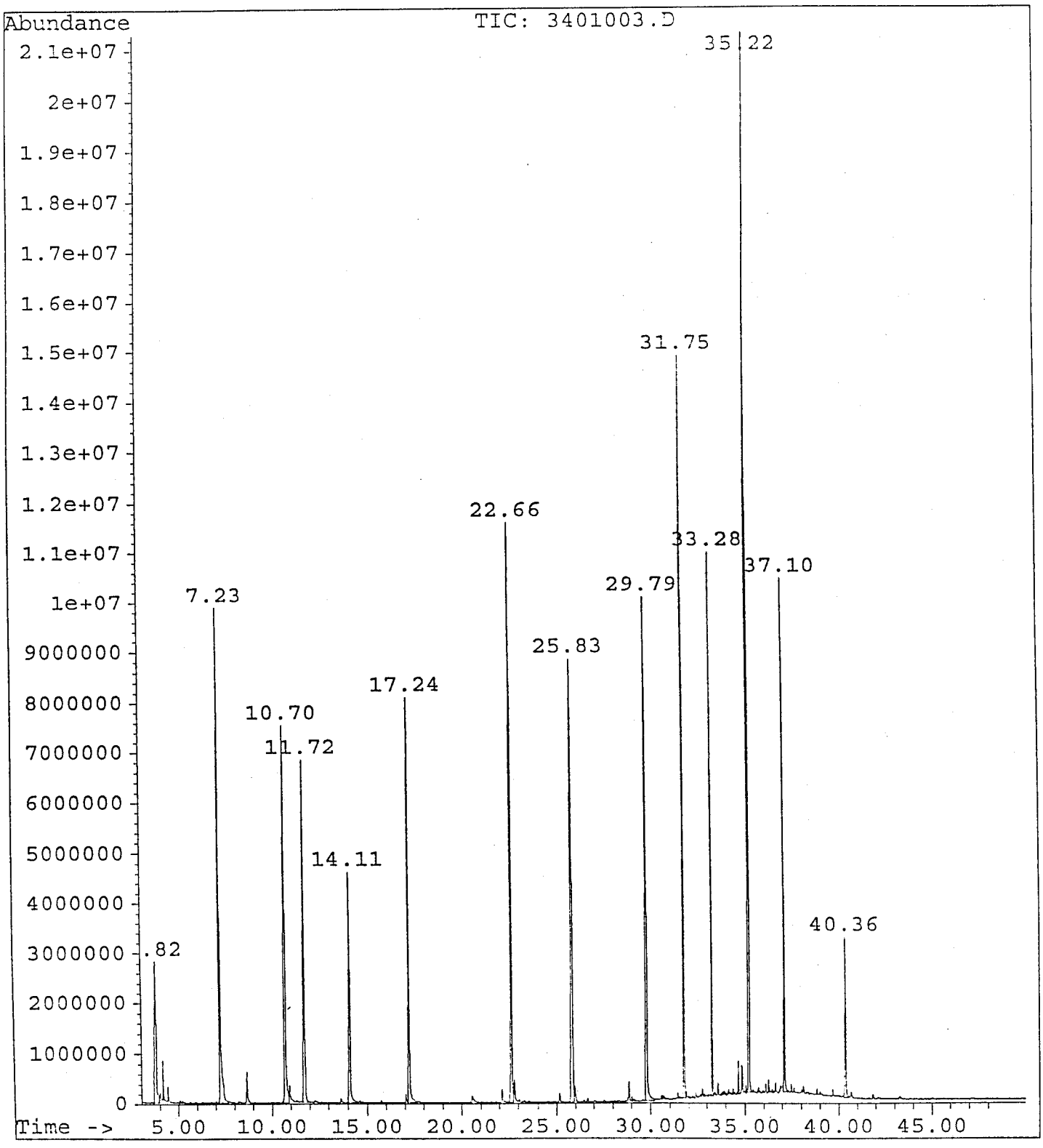
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	0.64	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Ackman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\3401003.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 10:27 am
Method File: 1118.M
Sample Name: 33564 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 34



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 3401003.D
Sample Desc. 33564 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 10:27 am
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.00	< DL	3.76	
3	42	5.880	N-Nitrosomethylethylamine		0.04	< DL	0.06	
4	112	7.383	2-Fluorophenol		104.35	88.10	0.15	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.01	< DL	0.10	
7	99	10.867	Phenol d5		142.54	88.19	0.17	
8	94	10.899	Phenol		3.21	1.62	0.16	trace
9	93	11.006	Bis(2-chloroethyl)ether		0.08	< DL	0.06	
10	128	11.018	2-Chlorophenol		2.63	1.67	0.08	trace
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		46.89	40.00	0.05	
13	146	11.837	1,4-Dichlorobenzene		1.54	< DL	0.07	
14	146	12.404	1,2-Dichlorobenzene		0.01	< DL	0.05	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.01	< DL	0.05	
17	108	13.493	2-Methylphenol		0.01	< DL	0.20	
18	105	13.689	Acetophenone		0.01	< DL	0.05	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		0.81	< DL	0.24	
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.36	
22	82	14.263	Nitrobenzene d5		66.22	37.93	0.15	
23	77	14.332	Nitrobenzene		0.02	< DL	0.00	
24	82	15.484	Isophorone		0.05	< DL	0.06	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.02	< DL	0.02	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.29	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		1.33	< DL	0.06	
30	136	17.300	Napthalene d8		163.87	40.00	0.06	
31	128	17.414	Naphthalene		0.09	< DL	0.08	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.03	< DL	0.10	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.02	
38	107	20.573	4-Chloro-3-methylphenol		2.02	1.44	0.02	trace
39	115	20.763	2-Methylnaphthalene		0.01	< DL	0.17	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	148.26	56.44	0.09	
45	162	23.093	2-Chloronaphthalene	0.05	< DL	0.13	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.11	
47	163	24.945	Dimethylphthalate	0.03	< DL	0.06	
48	152	25.078	Acenaphthylene	0.01	< DL	0.07	
49	165	25.268	2,6-Dinitrotoluene	0.58	< DL	0.12	
50	164	25.898	Acenaphthene d10	93.71	40.00	0.07	
51	154	26.119	Acenaphthene	2.30	< DL	0.14	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.41	< DL	0.19	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.06	< DL	0.09	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.01	< DL	0.06	
62	149	29.058	Diethylphthalate	0.33	< DL	0.20	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.10	< DL	0.29	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.39	< DL	0.12	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.04	< DL	0.04	
68	330	29.900	2,4,6-Tribromophenol	43.82	102.55	0.09	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.01	< DL	0.06	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.01	< DL	0.07	
74	169	31.472	4-Aminobiphenyl	0.09	< DL	0.10	
75	188	31.795	Phenanthrene d10	128.16	40.00	0.04	
76	178	31.871	Phenanthrene	0.16	< DL	0.12	
77	178	31.871	Anthracene	0.16	< DL	0.12	
78	149	33.316	Di-n-butylphthalate	103.13	19.31	0.03	— 640 mg/kg
79	202	34.450	Fluoranthene	5.37	1.29	0.41	trace
80	184	34.799	Benzidine	0.16	< DL	0.06	
81	202	34.894	Pyrene	5.52	1.33	0.04	trace
82	244	35.224	Terphenyl d14	192.64	87.70	0.01	
83	149	36.132	Butylbenzylphthalate	0.79	< DL	0.02	
84	252	37.078	3,3-Dichlorobenzidine	0.06	< DL	0.04	
85	228	37.100	Benzo(a)anthracene	0.32	< DL	0.00	
86	149	37.142	Bis(2-ethylhexyl)phthalate	2.93	1.16	0.03	trace
87	240	37.142	Chrysene d12	77.88	40.00	0.04	
88	228	37.180	Chrysene	0.32	< DL	0.08	
89	149	38.418	Di-n-octylphthalate	0.24	< DL	0.03	
90	252	39.389	Benzo(b)fluoranthene	0.06	< DL	0.00	
91	252	39.452	Benzo(k)fluoranthene	0.06	< DL	0.06	
92	252	40.239	Benzo(a)pyrene	0.06	< DL	0.85	
93	264	40.378	Perylene d12	36.77	40.00	0.02	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.01	< DL	0.03	
96	278	44.186	Dibenz(a,h)anthracene	0.01	< DL	0.03	
97	276	45.251	Benzo(g,h,i)perylene	0.01	< DL	0.03	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

3401003.D

Chemron Inc
QC Summary Report

Data File 3401003.D
Sample Desc. 33564 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 10:27 am
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.72	1,4-Dichlorobenzene d4	40.00	Pass	47.11	46.89
2	17.24	Napthalene d8	40.00	Pass	173.11	163.87
3	25.83	Acenaphthene d10	40.00	Pass	98.91	93.71
4	31.75	Phenanthrene d10	40.00	Pass	141.32	128.16
5	37.10	Chrysene d12	40.00	Pass	57.39	77.88
6	40.36	Perylene d12	40.00	Pass	27.23	36.77

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	88.10	44
10.70	Phenol d5	200.00	Pass	88.19	44
14.11	Nitrobenzene d5	100.00	Pass	37.93	38
22.66	2-Fluorobiphenyl	100.00	Pass	56.44	56
29.81	2,4,6-Tribromophenol	200.00	Pass	102.55	51
35.22	Terphenyl d14	100.00	Pass	87.70	88

3401003.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/25/94
Chemron Sample #: 33563
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-003BH 1-3' ft pjp

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33563

SEMI-VOLATILES ANALYSIS REPORT

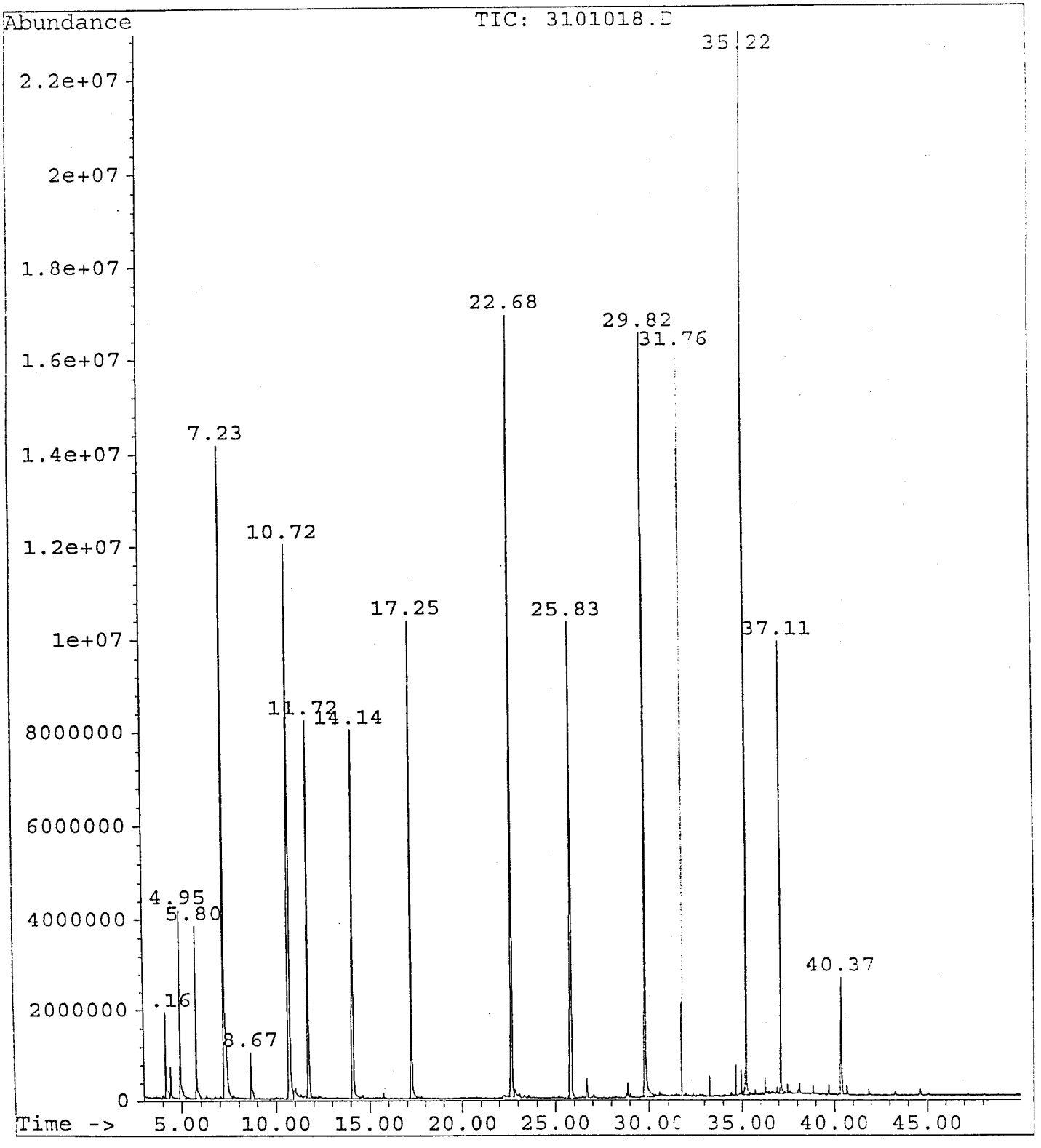
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By:

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\3101018.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 4:17 am
Method File: 1118.M
Sample Name: 33563 optech
Misc Info: HP 5970II ex: 01 20/94 30g/1mL BNA
ALS vial: 31



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 3101018.D
Sample Desc. 33563 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 4:17 am
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.649	Pyridine		0.00	< DL	3.65	
2	42	3.687	N-Nitrosodimethylamine		0.00	< DL	3.69	
3	42	5.831	N-Nitrosomethylethylamine		3.63	3.35	0.03	trace
4	112	7.297	2-Fluorophenol		165.69	128.89	0.06	
5	102	7.933	N-Nitrosodiethylamine		0.01	< DL	0.02	
6	93	10.549	Aniline		0.05	< DL	0.01	
7	99	10.782	Phenol d5		234.12	133.47	0.06	
8	94	10.820	Phenol		0.32	< DL	0.06	
9	93	10.933	Bis(2-chloroethyl)ether		0.01	< DL	0.04	
10	128	10.971	2-Chlorophenol		0.22	< DL	0.02	
11	146	11.481	1,3-Dichlorobenzene		0.03	< DL	0.02	
12	152	11.736	1,4-Dichlorobenzene d4		50.89	40.00	0.01	
13	146	11.802	1,4-Dichlorobenzene		0.03	< DL	0.02	
14	146	12.382	1,2-Dichlorobenzene		0.04	< DL	0.02	
15	108	12.577	Benzyl alcohol		0.01	< DL	0.31	
16	45	13.144	Bis(2-chloroisopropyl)ether		0.04	< DL	0.14	
17	108	13.352	2-Methylphenol		0.01	< DL	0.19	
18	105	13.610	Acetophenone		0.04	< DL	0.06	
19	117	13.749	Hexachloroethane		0.00	< DL	13.75	
20	70	13.806	N-Nitrosodi-n-propylamine		0.00	< DL	13.81	
21	108	13.970	4-Methylphenol	*	0.02	< DL	0.17	
22	82	14.203	Nitrobenzene d5		105.89	53.20	0.06	
23	77	14.278	Nitrobenzene		0.03	< DL	0.05	
24	82	15.412	Isophorone		0.00	< DL	0.05	
25	139	15.658	2-Nitrophenol		0.00	< DL	15.66	
26	122	16.225	2,4-Dimethylphenol		0.00	< DL	16.22	
27	93	16.603	Bis(2-chloroethoxy)methane		0.01	< DL	0.12	
28	162	16.868	2,4-Dichlorophenol		0.00	< DL	16.87	
29	180	17.082	1,2,4-Trichlorobenzene		0.03	< DL	0.02	
30	136	17.284	Naphthalene d8		186.81	40.00	0.03	
31	128	17.379	Naphthalene		0.14	< DL	0.05	
32	122	17.398	Benzoic acid		0.07	< DL	0.15	
33	58	17.758	a-,a-Dimethylphenethylamine		0.07	< DL	0.02	
34	162	17.853	2,6-Dichlorophenol		0.00	< DL	17.85	
35	127	17.891	4-Chloroaniline		0.00	< DL	17.89	
36	225	18.099	Hexachlorobutadiene		0.00	< DL	18.10	
37	84	19.718	N-Nitrosodi-n-butylamine		0.01	< DL	0.03	
38	107	20.518	4-Chloro-3-methylphenol		0.01	< DL	0.05	
39	115	20.726	2-Methylnaphthalene		0.01	< DL	0.33	
40	237	21.540	Hexachlorocyclopentadiene		0.00	< DL	21.54	
41	216	21.552	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.55	
42	196	22.277	2,4,6-Trichlorophenol		0.00	< DL	22.28	
43	196	22.460	2,4,5-Trichlorophenol		0.00	< DL	22.46	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.713	2-Fluorobiphenyl	218.34	76.41	0.03	
45	162	23.054	2-Chloronaphthalene	0.06	< DL	0.09	
46	65	23.804	2-Nitroaniline	0.01	< DL	0.01	
47	163	25.001	Dimethylphthalate	0.01	< DL	0.11	
48	152	25.039	Acenaphthylene	0.00	< DL	25.04	
49	165	25.191	2,6-Dinitrotoluene	0.16	< DL	0.02	
50	164	25.852	Acenaphthene d10	101.93	40.00	0.02	
51	138	26.042	3-Nitroaniline	0.00	< DL	26.04	
52	154	26.061	Acenaphthene	0.36	< DL	0.23	
53	184	26.789	2,4-Dinitrophenol	0.00	< DL	26.79	
54	250	26.931	Pentachlorobenzene	0.00	< DL	26.93	
55	168	27.216	Dibenzofuran	0.00	< DL	27.22	
56	165	27.614	2,4-Dinitrotoluene	0.00	< DL	27.61	
57	143	27.734	1-Naphthylamine	0.00	< DL	27.73	
58	139	27.841	4-Nitrophenol	0.00	< DL	27.84	
59	232	28.069	2,3,4,6-Tetrachlorophenol	0.05	< DL	0.16	
60	143	28.202	2-Naphthylamine	0.00	< DL	28.20	
61	166	28.904	Fluorene	0.00	< DL	28.90	
62	149	28.980	Diethylphthalate	0.62	< DL	0.09	
63	204	29.094	4-Chorophenylphenyl ether	0.00	< DL	29.09	
64	138	29.315	4-Nitroaniline	0.00	< DL	29.32	
65	198	29.416	4,6-Dinitro-2-methylphenol	0.20	< DL	0.40	
66	169	29.626	N-Nitroso-di-n-phenylamine **	2.51	1.27	0.19	trace
67	77	29.682	1,2-Diphenylhydrazine/Azobenze	0.07	< DL	0.13	
68	330	29.854	2,4,6-Tribromophenol	64.95	139.75	0.04	
69	248	30.683	4-Bromophenylphenylether	0.00	< DL	30.68	
70	284	30.728	Hexachlorobenzene	0.00	< DL	30.73	
71	108	30.804	Phenacetin	0.01	< DL	0.10	
72	295	31.367	Pentachloronitrobenzene	0.00	< DL	31.37	
73	266	31.393	Pentachlorophenol	0.00	< DL	31.39	
74	169	31.431	4-Aminobiphenyl	0.10	< DL	0.03	
75	188	31.773	Phenanthrene d10	139.34	40.00	0.01	
76	178	31.831	Phenanthrene	0.22	< DL	0.03	
77	178	31.831	Anthracene	0.22	< DL	0.03	
78	149	33.313	Di-n-butylphthalate	4.92	< DL	0.04	
79	202	34.433	Fluoranthene	0.79	< DL	0.01	
80	184	34.775	Benzidine	2.85	3.22	0.45	trace
81	202	34.870	Pyrene	0.71	< DL	0.01	
82	244	35.213	Terphenyl d14	193.79	109.71	0.01	
83	149	36.126	Butylbenzylphthalate	0.33	< DL	0.01	
84	252	37.072	3,3-Dichlorobenzidine	0.00	< DL	37.07	
85	240	37.129	Chrysene d12	62.63	40.00	0.01	
86	149	37.148	Bis(2-ethylhexyl)phthalate	1.25	< DL	0.01	
87	228	37.170	Chrysene	0.90	< DL	0.07	
88	228	37.174	Benzo(a)anthracene	0.90	< DL	0.08	
89	149	38.419	Di-n-octylphthalate	0.17	< DL	0.07	
90	252	39.395	Benzo(b)fluoranthene	0.48	< DL	0.03	
91	252	39.460	Benzo(k)fluoranthene	0.48	< DL	0.09	
92	252	40.240	Benzo(a)pyrene	0.17	< DL	0.02	
93	264	40.392	Perylene d12	29.44	40.00	0.02	
94	268	41.279	3-Methylcholanthrene	0.00	< DL	41.28	
95	276	44.118	Indeno(1,2,3-cd)pyrene	0.02	< DL	0.05	
96	278	44.204	Dibenz(a,h)anthracene	0.00	< DL	44.20	
97	276	45.272	Benzo(g,h,i)perylene	0.01	< DL	0.06	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

3101018.D

Chemron Inc
QC Summary Report

Data File 3101018.D
Sample Desc. 33563 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 4:17 am
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.72	1,4-Dichlorobenzene d4	40.00	Pass	59.35	50.89
2	17.25	Napthalene d8	40.00	Pass	206.23	186.81
3	25.83	Acenaphthene d10	40.00	Pass	118.82	101.93
4	31.76	Phenanthrene d10	40.00	Pass	164.61	139.34
5	37.11	Chrysene d12	40.00	Pass	81.21	62.63
6	40.37	Perylene d12	40.00	Pass	40.13	29.44

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	128.89	64
10.72	Phenol d5	200.00	Pass	133.47	67
14.14	Nitrobenzene d5	100.00	Pass	53.20	53
22.68	2-Fluorobiphenyl	100.00	Pass	76.41	76
29.82	2,4,6-Tribromophenol	200.00	Pass	139.75	70
35.22	Terphenyl d14	100.00	Pass	109.71	110

3101018.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33575
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-002BH 7-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/26/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/26/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/26/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/26/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/26/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/26/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/26/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/26/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/26/94	8270
Isophorone	0.33	MG/KG	ND	01/26/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/26/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/26/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/26/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/26/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/26/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Naphthalene	0.33	MG/KG	ND	01/26/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/26/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/26/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/26/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/26/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/26/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/26/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/26/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/26/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/26/94	8270

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Chemron Sample #: 33575

SEMI-VOLATILES ANALYSIS REPORT

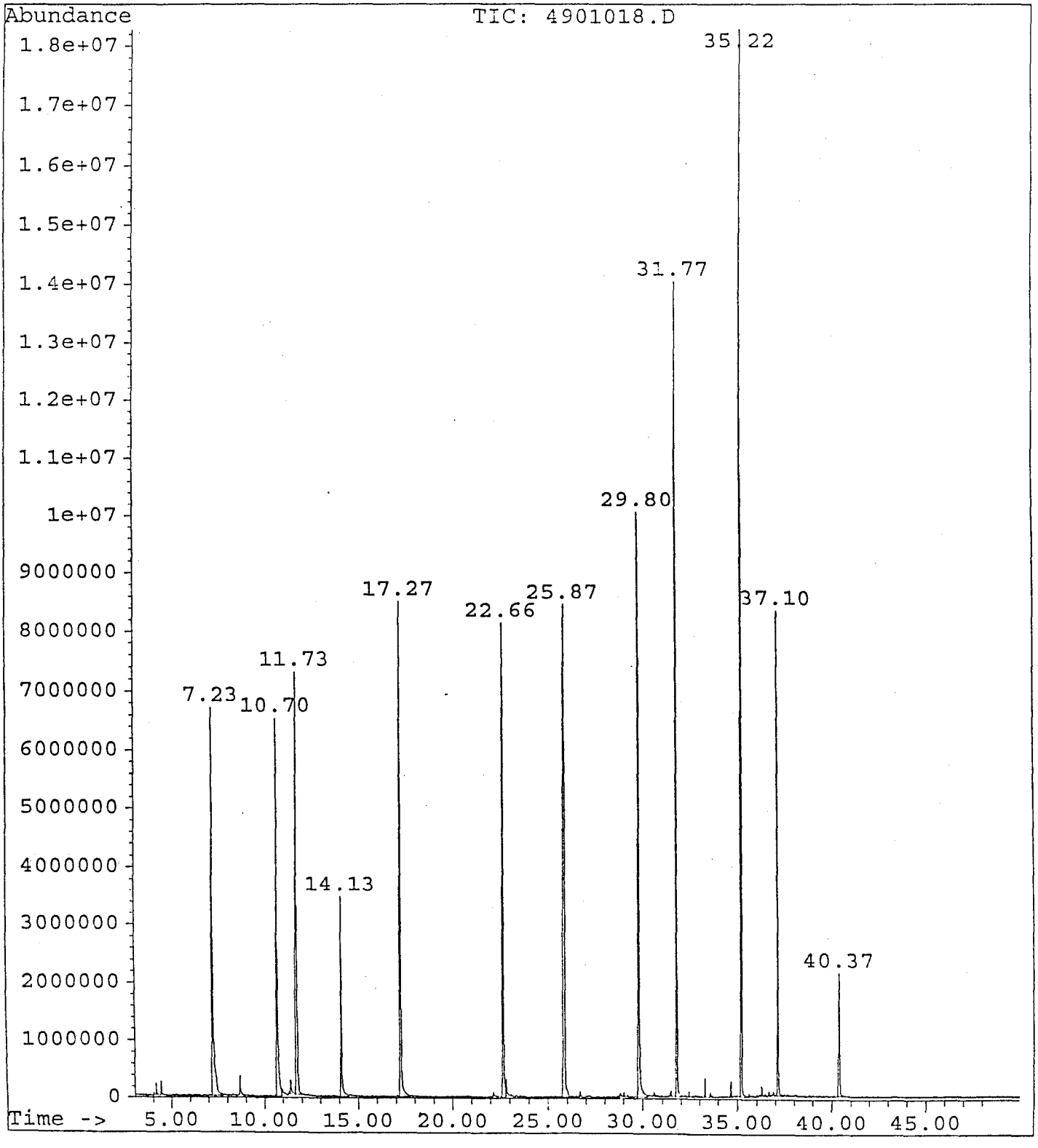
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
Acenaphthene	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/26/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/26/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/26/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/26/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Fluorene	0.33	MG/KG	ND	01/26/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/26/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/26/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/26/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/26/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/26/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/26/94	8270
Phenanthrene	0.33	MG/KG	ND	01/26/94	8270
Anthracene	0.33	MG/KG	ND	01/26/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/26/94	8270
Fluoranthene	0.33	MG/KG	ND	01/26/94	8270
Pyrene	0.40	MG/KG	ND	01/26/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/26/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/26/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/26/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/26/94	8270
Chrysene	0.33	MG/KG	ND	01/26/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/26/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/26/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/26/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/26/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/26/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/26/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/26/94	8270

ND - Not Detected

Approved By: R. Ackman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\4901018.D
Operator: Vergel C.
Date Acquired: 26 Jan 94 1:02 am
Method File: 1118.M
Sample Name: 33575 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 49



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 4901018.D
Sample Desc. 33575 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 1:02 am
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.06	< DL	0.09	
3	42	5.880	N-Nitrosomethylethylamine		0.07	< DL	0.03	
4	112	7.383	2-Fluorophenol		67.89	59.04	0.16	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.01	< DL	0.01	
7	99	10.867	Phenol d5		96.04	61.21	0.17	
8	94	10.899	Phenol		0.64	< DL	0.17	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.03	
10	128	11.018	2-Chlorophenol		0.47	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		45.53	40.00	0.03	
13	146	11.837	1,4-Dichlorobenzene		0.27	< DL	0.05	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.05	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.01	< DL	0.00	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		5.80	5.05	0.23	trace
21	108	14.055	4-Methylphenol	*	0.02	< DL	0.05	
22	82	14.263	Nitrobenzene d5		41.12	23.30	0.14	
23	77	14.332	Nitrobenzene		0.04	< DL	0.05	
24	82	15.484	Isophorone		0.01	< DL	0.08	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.05	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.05	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.17	< DL	0.03	
30	136	17.300	Naphthalene d8		165.64	40.00	0.03	
31	128	17.414	Naphthalene		0.07	< DL	0.06	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.03	< DL	0.03	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.15	
38	107	20.573	4-Chloro-3-methylphenol		0.17	< DL	0.13	
39	115	20.763	2-Methylnaphthalene		0.01	< DL	0.00	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	98.75	39.08	0.09	
45	162	23.093	2-Chloronaphthalene	0.02	< DL	0.13	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.04	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.00	< DL	25.27	
50	164	25.898	Acenaphthene d10	90.15	40.00	0.05	
51	154	26.119	Acenaphthene	0.25	< DL	0.12	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.14	< DL	0.18	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.12	< DL	0.30	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.41	< DL	0.14	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.02	< DL	0.14	
68	330	29.900	2,4,6-Tribromophenol	38.50	93.66	0.10	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.00	< DL	30.88	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.06	< DL	0.06	
75	188	31.795	Phenanthrene d10	119.36	40.00	0.03	
76	178	31.871	Phenanthrene	0.07	< DL	0.11	
77	178	31.871	Anthracene	0.07	< DL	0.11	
78	149	33.316	Di-n-butylphthalate	3.43	< DL	0.02	
79	202	34.450	Fluoranthene	0.02	< DL	0.20	
80	184	34.799	Benzidine	1.70	2.14	0.42	trace
81	202	34.894	Pyrene	0.06	< DL	0.02	
82	244	35.224	Terphenyl d14	139.35	87.70	0.01	
83	149	36.132	Butylbenzylphthalate	0.15	< DL	0.01	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.18	< DL	0.00	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.06	< DL	0.00	
87	240	37.142	Chrysene d12	56.34	40.00	0.04	
88	228	37.180	Chrysene	0.18	< DL	0.08	
89	149	38.418	Di-n-octylphthalate	0.04	< DL	0.01	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.11	< DL	0.13	
93	264	40.378	Perylene d12	22.80	40.00	0.01	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

4901018.D

Chemron Inc
QC Summary Report

Data File 4901018.D
Sample Desc. 33575 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 26 Jan 94 1:02 am
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.73	1,4-Dichlorobenzene d4	40.00	Pass	49.83	45.53
2	17.27	Napthalene d8	40.00	Pass	182.13	165.64
3	25.85	Acenaphthene d10	40.00	Pass	105.33	90.15
4	31.77	Phenanthrene d10	40.00	Pass	140.38	119.36
5	37.10	Chrysene d12	40.00	Pass	62.00	56.34
6	40.37	Perylene d12	40.00	Pass	27.57	22.80

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	59.04	30
10.70	Phenol d5	200.00	Pass	61.21	31
14.13	Nitrobenzene d5	100.00	Pass	23.30	23
22.66	2-Fluorobiphenyl	100.00	Pass	39.08	39
29.80	2,4,6-Tribromophenol	200.00	Pass	93.66	47
35.22	Terphenyl d14	100.00	Pass	87.70	88

4901018.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33574
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-002BH 1-2

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33574

SEMI-VOLATILES ANALYSIS REPORT

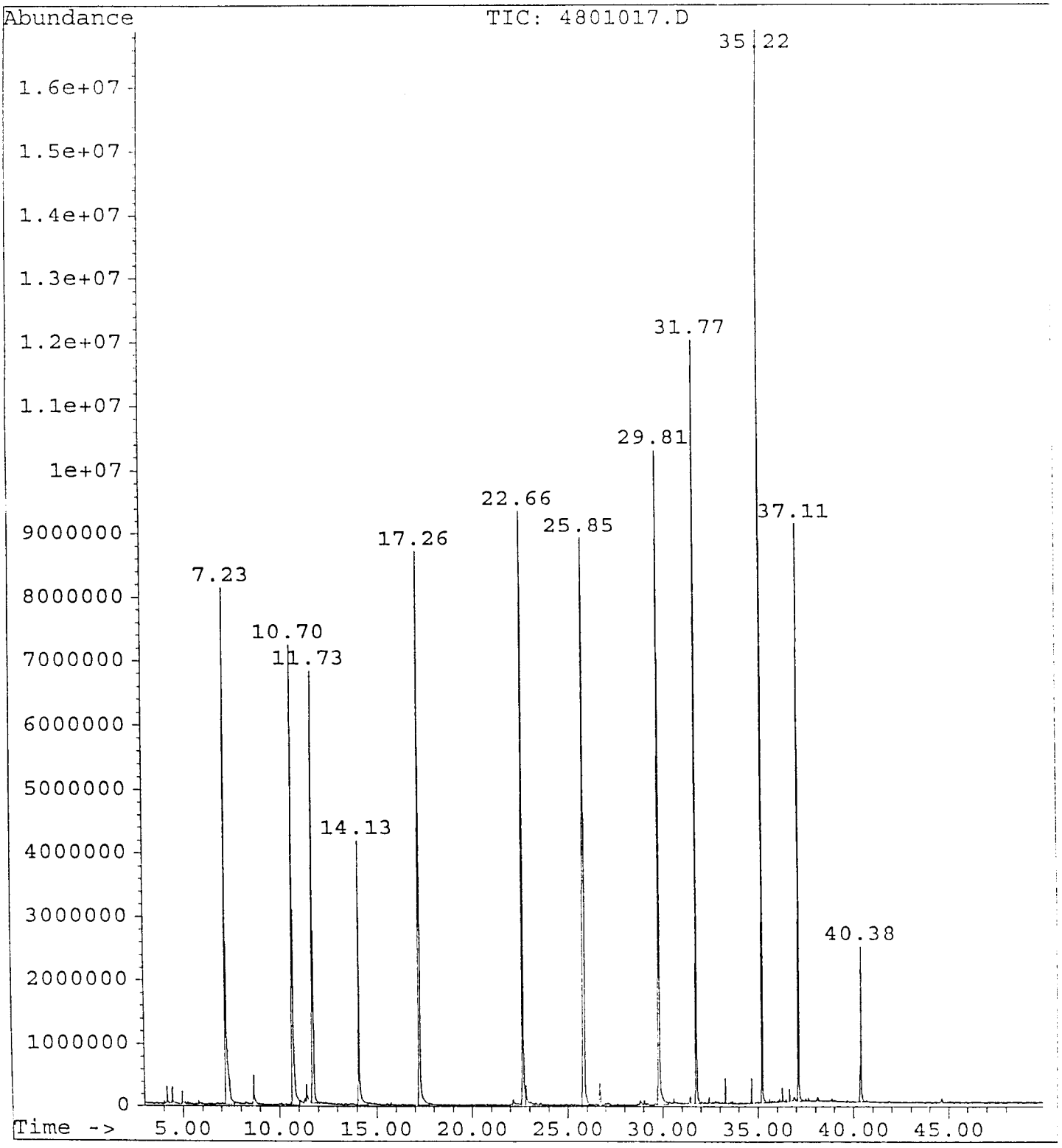
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Ocampo

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\4801017.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 11:59 pm
Method File: 1118.M
Sample Name: 33574 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 48



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 4801017.D
Sample Desc. 33574 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 11:59 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.01	< DL	0.08	
3	42	5.880	N-Nitrosomethylethylamine		0.09	< DL	0.08	
4	112	7.383	2-Fluorophenol		84.46	75.45	0.15	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.01	< DL	0.06	
7	99	10.867	Phenol d5		117.10	76.66	0.17	
8	94	10.899	Phenol		0.34	< DL	0.16	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.06	
10	128	11.018	2-Chlorophenol		0.23	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		44.32	40.00	0.03	
13	146	11.837	1,4-Dichlorobenzene		0.10	< DL	0.05	
14	146	12.404	1,2-Dichlorobenzene		0.01	< DL	0.03	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.05	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.05	< DL	0.11	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		7.18	6.42	0.23	trace
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		50.29	29.09	0.13	
23	77	14.332	Nitrobenzene		0.03	< DL	0.01	
24	82	15.484	Isophorone		0.08	< DL	0.05	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.06	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.08	< DL	0.04	
30	136	17.300	Napthalene d8		162.22	40.00	0.04	
31	128	17.414	Naphthalene		0.08	< DL	0.08	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.03	< DL	0.06	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.08	
38	107	20.573	4-Chloro-3-methylphenol		0.02	< DL	0.15	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	114.13	45.53	0.09	
45	162	23.093	2-Chloronaphthalene	0.01	< DL	0.13	
46	65	23.868	2-Nitroaniline	0.02	< DL	0.02	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.01	< DL	0.12	
50	164	25.898	Acenaphthene d10	89.43	40.00	0.05	
51	154	26.119	Acenaphthene	0.07	< DL	0.12	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.16	< DL	0.18	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.11	< DL	0.31	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.41	< DL	0.14	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.05	< DL	0.08	
68	330	29.900	2,4,6-Tribromophenol	32.85	80.56	0.09	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.01	< DL	0.40	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.08	< DL	0.08	
75	188	31.795	Phenanthrene d10	118.54	40.00	0.03	
76	178	31.871	Phenanthrene	0.11	< DL	0.10	
77	178	31.871	Anthracene	0.11	< DL	0.10	
78	149	33.316	Di-n-butylphthalate	4.39	< DL	0.04	
79	202	34.450	Fluoranthene	0.08	< DL	0.41	
80	184	34.799	Benzidine	1.93	2.40	0.42	trace
81	202	34.894	Pyrene	0.08	< DL	0.03	
82	244	35.224	Terphenyl d14	155.74	96.92	0.00	
83	149	36.132	Butylbenzylphthalate	0.26	< DL	0.02	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.28	< DL	0.01	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.43	< DL	0.01	
87	240	37.142	Chrysene d12	56.97	40.00	0.03	
88	228	37.180	Chrysene	0.28	< DL	0.07	
89	149	38.418	Di-n-octylphthalate	0.21	< DL	0.08	
90	252	39.389	Benzo(b)fluoranthene	0.02	< DL	0.01	
91	252	39.452	Benzo(k)fluoranthene	0.02	< DL	0.05	
92	252	40.239	Benzo(a)pyrene	0.13	< DL	0.14	
93	264	40.378	Perylene d12	27.31	40.00	0.00	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

4801017.D

Chemron Inc
QC Summary Report

Data File 4801017.D
Sample Desc. 33574 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 11:59 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.73	1,4-Dichlorobenzene d4	40.00	Pass	49.83	44.32
2	17.26	Napthalene d8	40.00	Pass	182.13	162.22
3	25.85	Acenaphthene d10	40.00	Pass	105.33	89.43
4	31.77	Phenanthrene d10	40.00	Pass	140.38	118.54
5	37.11	Chrysene d12	40.00	Pass	62.00	56.97
6	40.38	Perylene d12	40.00	Pass	27.57	27.31

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	75.45	38
10.70	Phenol d5	200.00	Pass	76.66	38
14.13	Nitrobenzene d5	100.00	Pass	29.09	29
22.66	2-Fluorobiphenyl	100.00	Pass	45.53	46
29.81	2,4,6-Tribromophenol	200.00	Pass	80.56	40
35.22	Terphenyl d14	100.00	Pass	96.92	97

4801017.D

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INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33573
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-001BH 7-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33573

SEMI-VOLATILES ANALYSIS REPORT

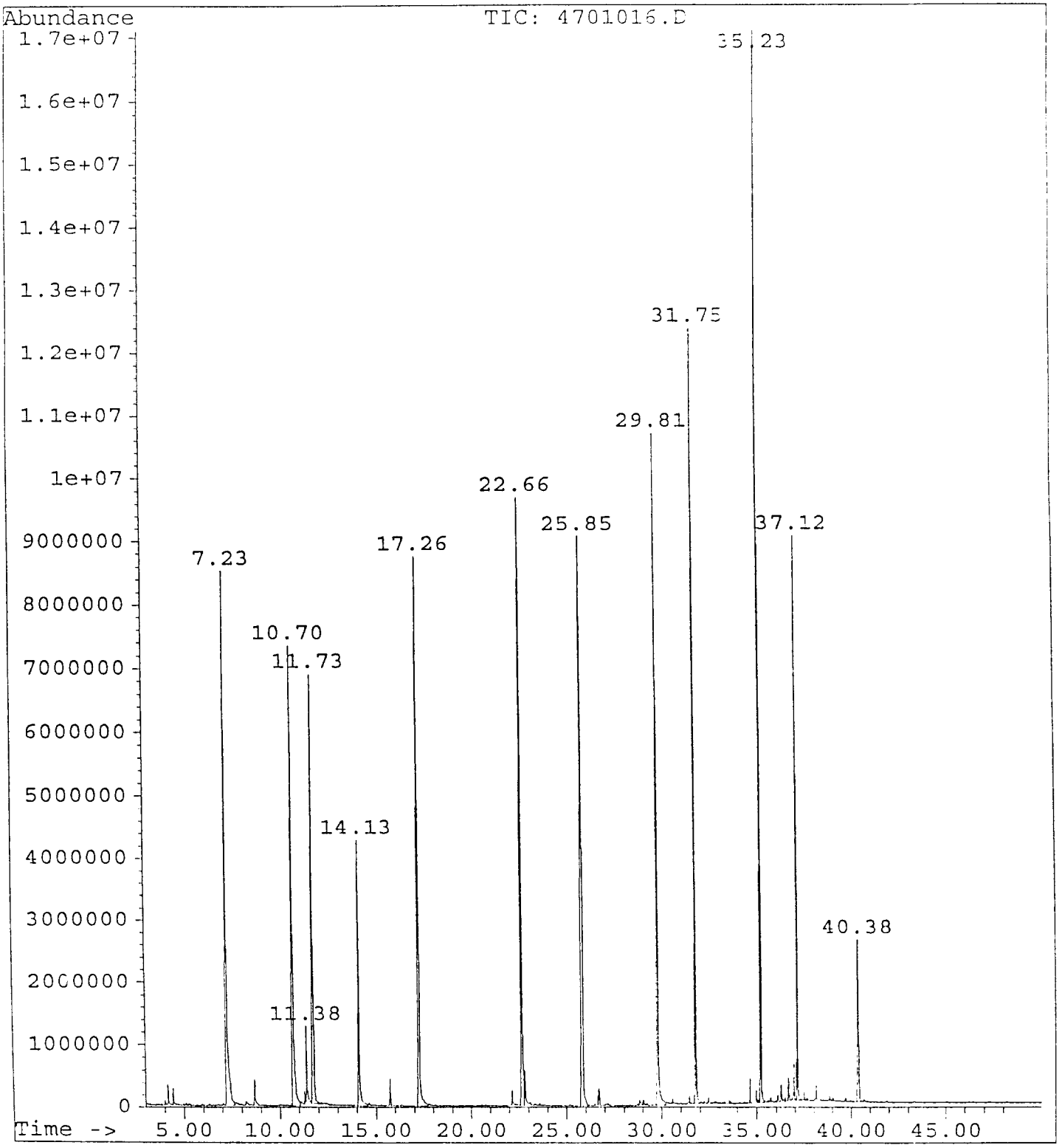
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Clancy

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\4701016.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 10:56 pm
Method File: 1118.M
Sample Name: 33573 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL EtOA
ALS vial: 47



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 4701016.D
Sample Desc. 33573 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 10:56 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.06	< DL	0.08	
3	42	5.880	N-Nitrosomethylethylamine		0.04	< DL	0.01	
4	112	7.383	2-Fluorophenol		84.62	75.37	0.16	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.06	
7	99	10.867	Phenol d5		117.73	76.84	0.17	
8	94	10.899	Phenol		0.22	< DL	0.16	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.16	
10	128	11.018	2-Chlorophenol		0.08	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		44.45	40.00	0.03	
13	146	11.837	1,4-Dichlorobenzene		0.00	< DL	11.84	
14	146	12.404	1,2-Dichlorobenzene		0.01	< DL	0.03	
15	108	12.649	Benzyl alcohol		0.01	< DL	0.07	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.01	< DL	0.18	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.02	< DL	0.03	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		7.48	6.67	0.23	trace
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		53.26	30.44	0.13	
23	77	14.332	Nitrobenzene		0.03	< DL	0.06	
24	82	15.484	Isophorone		0.05	< DL	0.05	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.07	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.10	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.00	< DL	17.11	
30	136	17.300	Napthalene d8		164.22	40.00	0.04	
31	128	17.414	Naphthalene		0.07	< DL	0.08	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.02	< DL	0.29	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.13	
38	107	20.573	4-Chloro-3-methylphenol		0.00	< DL	20.57	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/mL)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	123.68	48.45	0.09	
45	162	23.093	2-Chloronaphthalene	0.01	< DL	0.13	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.03	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.01	< DL	0.12	
50	164	25.898	Acenaphthene d10	91.07	40.00	0.05	
51	154	26.119	Acenaphthene	0.34	< DL	0.27	
52	138	26.138	3-Nitroaniline	0.01	< DL	0.27	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.17	< DL	0.17	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.12	< DL	0.31	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.40	< DL	0.14	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.03	< DL	0.02	
68	330	29.900	2,4,6-Tribromophenol	37.63	90.63	0.09	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.01	< DL	0.40	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.11	< DL	0.08	
75	188	31.795	Phenanthrene d10	126.55	40.00	0.04	
76	178	31.871	Phenanthrene	0.08	< DL	0.12	
77	178	31.871	Anthracene	0.08	< DL	0.12	
78	149	33.316	Di-n-butylphthalate	4.60	< DL	0.03	
79	202	34.450	Fluoranthene	0.14	< DL	0.42	
80	184	34.799	Benzidine	2.05	2.46	0.43	trace
81	202	34.894	Pyrene	0.15	< DL	0.03	
82	244	35.224	Terphenyl d14	168.56	101.25	0.00	
83	149	36.132	Butylbenzylphthalate	0.41	< DL	0.02	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.25	< DL	0.02	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.52	< DL	0.01	
87	240	37.142	Chrysene d12	59.03	40.00	0.03	
88	228	37.180	Chrysene	0.25	< DL	0.06	
89	149	38.418	Di-n-octylphthalate	0.25	< DL	0.07	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.14	< DL	0.15	
93	264	40.378	Perylene d12	28.79	40.00	0.01	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol
** Inseparable from Diphenylamine

Chemron Inc
QC Summary Report

Data File 4701016.D
Sample Desc. 33573 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 10:56 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.73	1,4-Dichlorobenzene d4	40.00	Pass	49.83	44.45
2	17.26	Napthalene d8	40.00	Pass	182.13	164.22
3	25.85	Acenaphthene d10	40.00	Pass	105.33	91.07
4	31.75	Phenanthrene d10	40.00	Pass	140.38	126.55
5	37.12	Chrysene d12	40.00	Pass	62.00	59.03
6	40.38	Perylene d12	40.00	Pass	27.57	28.79

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	75.37	38
10.70	Phenol d5	200.00	Pass	76.84	38
14.13	Nitrobenzene d5	100.00	Pass	30.44	30
22.66	2-Fluorobiphenyl	100.00	Pass	48.45	48
29.81	2,4,6-Tribromophenol	200.00	Pass	90.63	45
35.23	Terphenyl d14	100.00	Pass	101.25	101

4701016.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33572
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: 01-001BH 4.5-5.5

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33572

SEMI-VOLATILES ANALYSIS REPORT

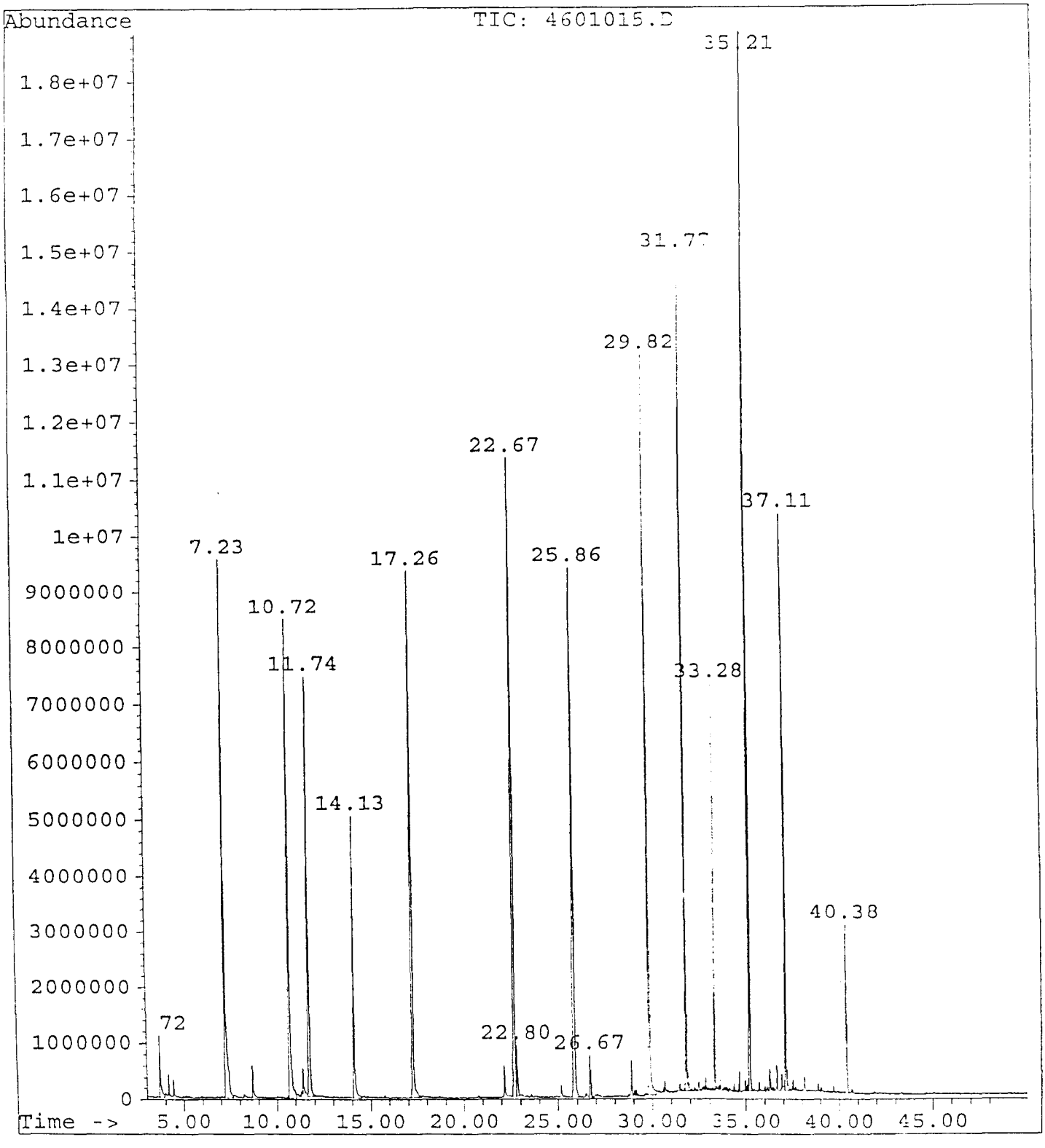
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	0.46	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Alcaraz

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\4601015.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 9:53 pm
Method File: 1118.M
Sample Name: 33572 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 46



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 4601015.D
Sample Desc. 33572 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 9:53 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.69	< DL	0.04	
3	42	5.880	N-Nitrosomethylethylamine		0.06	< DL	0.03	
4	112	7.383	2-Fluorophenol		104.09	86.17	0.15	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.02	< DL	0.07	
7	99	10.867	Phenol d5		145.51	88.27	0.15	
8	94	10.899	Phenol		0.77	< DL	0.14	
9	93	11.006	Bis(2-chloroethyl)ether		0.02	< DL	0.06	
10	128	11.018	2-Chlorophenol		0.41	< DL	0.07	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		47.83	40.00	0.03	
13	146	11.837	1,4-Dichlorobenzene		0.19	< DL	0.04	
14	146	12.404	1,2-Dichlorobenzene		0.00	< DL	12.40	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.03	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.01	< DL	0.03	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		9.03	7.48	0.23	trace
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.27	
22	82	14.263	Nitrobenzene d5		64.84	34.72	0.13	
23	77	14.332	Nitrobenzene		0.03	< DL	0.01	
24	82	15.484	Isophorone		0.09	< DL	0.00	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.02	< DL	0.04	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.14	< DL	0.04	
30	136	17.300	Napthalene d8		175.29	40.00	0.04	
31	128	17.414	Naphthalene		0.12	< DL	0.08	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.02	< DL	0.04	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.07	
38	107	20.573	4-Chloro-3-methylphenol		0.13	< DL	0.12	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	147.27	54.53	0.08	
45	162	23.093	2-Chloronaphthalene	0.06	< DL	0.12	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.07	
47	163	24.945	Dimethylphthalate	0.02	< DL	0.03	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.63	< DL	0.11	
50	164	25.898	Acenaphthene d10	96.34	40.00	0.04	
51	154	26.119	Acenaphthene	0.17	< DL	0.11	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.01	< DL	0.15	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.01	< DL	0.05	
62	149	29.058	Diethylphthalate	0.53	< DL	0.16	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.16	< DL	0.32	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.97	1.05	0.15	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.13	< DL	0.12	
68	330	29.900	2,4,6-Tribromophenol	53.76	122.38	0.08	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.03	< DL	0.06	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.28	< DL	0.08	
75	188	31.795	Phenanthrene d10	131.84	40.00	0.03	
76	178	31.871	Phenanthrene	0.17	< DL	0.07	
77	178	31.871	Anthracene	0.17	< DL	0.07	
78	149	33.316	Di-n-butylphthalate	76.20	13.87	0.03	— 40.0 ug/kg
79	202	34.450	Fluoranthene	0.02	< DL	0.33	
80	184	34.799	Benzidine	0.25	< DL	0.04	
81	202	34.894	Pyrene	0.10	< DL	0.02	
82	244	35.224	Terphenyl d14	167.06	92.68	0.01	
83	149	36.132	Butylbenzylphthalate	0.49	< DL	0.03	
84	252	37.078	3,3-Dichlorobenzidine	0.01	< DL	0.05	
85	228	37.100	Benzo(a)anthracene	0.28	< DL	0.01	
86	149	37.142	Bis(2-ethylhexyl)phthalate	2.19	1.06	0.02	trace
87	240	37.142	Chrysene d12	63.91	40.00	0.03	
88	228	37.180	Chrysene	0.28	< DL	0.07	
89	149	38.418	Di-n-octylphthalate	0.15	< DL	0.02	
90	252	39.389	Benzo(b)fluoranthene	0.02	< DL	0.01	
91	252	39.452	Benzo(k)fluoranthene	0.01	< DL	0.02	
92	252	40.239	Benzo(a)pyrene	0.15	< DL	0.14	
93	264	40.378	Perylene d12	32.86	40.00	0.00	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

4601015.D

Chemron Inc
QC Summary Report

Data File 4601015.D
Sample Desc. 33572 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 9:53 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.74	1,4-Dichlorobenzene d4	40.00	Pass	49.83	47.83
2	17.26	Napthalene d8	40.00	Pass	182.13	175.29
3	25.86	Acenaphthene d10	40.00	Pass	105.33	96.34
4	31.77	Phenanthrene d10	40.00	Pass	140.38	131.84
5	37.11	Chrysene d12	40.00	Pass	62.00	63.91
6	40.38	Perylene d12	40.00	Pass	27.57	32.86

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	86.17	43
10.72	Phenol d5	200.00	Pass	88.27	44
14.13	Nitrobenzene d5	100.00	Pass	34.72	35
22.67	2-Fluorobiphenyl	100.00	Pass	54.53	55
29.82	2,4,6-Tribromophenol	200.00	Pass	122.38	61
35.21	Terphenyl d14	100.00	Pass	92.68	93

4601015.D

CHEMRON
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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33562
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: BG-002BH 7-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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Chemron Sample #: 33562

SEMI-VOLATILES ANALYSIS REPORT

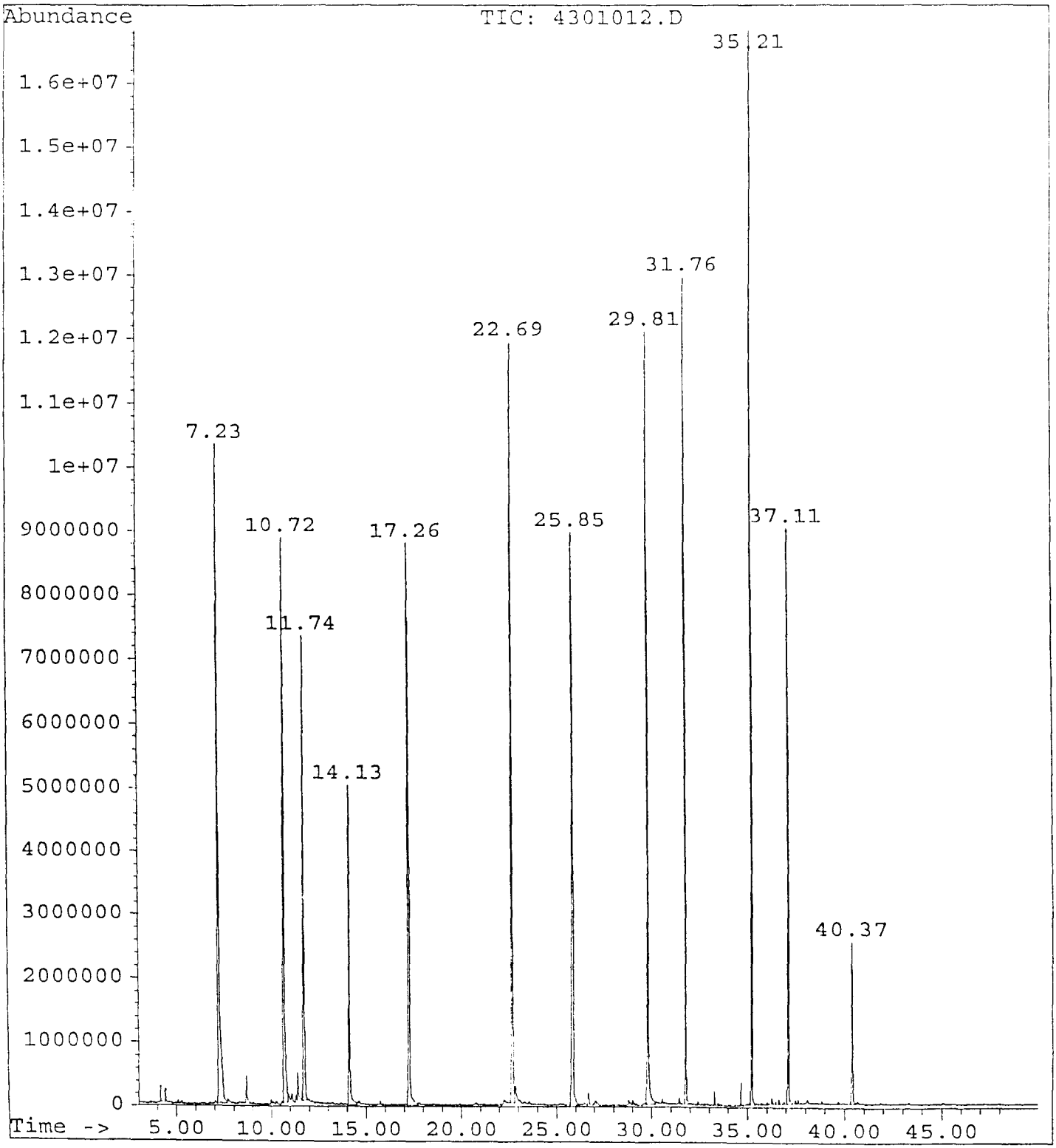
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Ellman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\4301012.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 7:27 pm
Method File: 1118.M
Sample Name: 33562 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 43



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 4301012.D
Sample Desc. 33562 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 7:27 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.07	< DL	0.09	
3	42	5.880	N-Nitrosomethylethylamine		0.09	< DL	0.03	
4	112	7.383	2-Fluorophenol		116.21	99.12	0.16	
5	102	7.987	N-Nitrosodiethylamine		0.01	< DL	0.25	
6	93	10.590	Aniline		0.04	< DL	0.06	
7	99	10.867	Phenol d5		159.84	99.90	0.15	
8	94	10.899	Phenol		0.66	< DL	0.14	
9	93	11.006	Bis(2-chloroethyl)ether		0.02	< DL	0.04	
10	128	11.018	2-Chlorophenol		0.45	< DL	0.06	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		46.42	40.00	0.03	
13	146	11.837	1,4-Dichlorobenzene		0.21	< DL	0.05	
14	146	12.404	1,2-Dichlorobenzene		0.02	< DL	0.03	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.05	< DL	0.01	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.03	< DL	0.09	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		9.58	8.18	0.23	trace
21	108	14.055	4-Methylphenol	*	0.02	< DL	0.02	
22	82	14.263	Nitrobenzene d5		68.68	38.61	0.13	
23	77	14.332	Nitrobenzene		0.37	< DL	0.20	
24	82	15.484	Isophorone		0.04	< DL	0.10	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.01	< DL	0.06	
27	93	16.643	Bis(2-chloroethoxy)methane		0.01	< DL	0.04	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.16	< DL	0.04	
30	136	17.300	Napthalene d8		166.96	40.00	0.04	
31	128	17.414	Naphthalene		0.15	< DL	0.08	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.02	< DL	0.42	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.15	
38	107	20.573	4-Chloro-3-methylphenol		0.19	< DL	0.13	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	159.27	61.33	0.07	
45	162	23.093	2-Chloronaphthalene	0.01	< DL	0.12	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.02	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.01	< DL	0.11	
50	164	25.898	Acenaphthene d10	92.64	40.00	0.05	
51	154	26.119	Acenaphthene	0.24	< DL	0.12	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.12	< DL	0.17	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.14	< DL	0.31	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.65	< DL	0.15	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.35	< DL	0.08	
68	330	29.900	2,4,6-Tribromophenol	48.77	115.45	0.09	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.01	< DL	0.32	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.16	< DL	0.30	
75	188	31.795	Phenanthrene d10	119.10	40.00	0.04	
76	178	31.871	Phenanthrene	0.08	< DL	0.12	
77	178	31.871	Anthracene	0.08	< DL	0.12	
78	149	33.316	Di-n-butylphthalate	2.33	< DL	0.03	
79	202	34.450	Fluoranthene	0.03	< DL	0.21	
80	184	34.799	Benzidine	1.97	2.31	0.41	trace
81	202	34.894	Pyrene	0.03	< DL	0.24	
82	244	35.224	Terphenyl d14	161.92	95.41	0.00	
83	149	36.132	Butylbenzylphthalate	0.07	< DL	0.02	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.20	< DL	0.01	
86	149	37.142	Bis(2-ethylhexyl)phthalate	0.53	< DL	0.01	
87	240	37.142	Chrysene d12	60.17	40.00	0.03	
88	228	37.180	Chrysene	0.20	< DL	0.07	
89	149	38.418	Di-n-octylphthalate	0.10	< DL	0.02	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.13	< DL	0.14	
93	264	40.378	Perylene d12	28.70	40.00	0.00	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

4301012.D

Chemron Inc
QC Summary Report

Data File 4301012.D
Sample Desc. 33562 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 7:27 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.74	1,4-Dichlorobenzene d4	40.00	Pass	47.11	46.42
2	17.26	Napthalene d8	40.00	Pass	173.11	166.96
3	25.85	Acenaphthene d10	40.00	Pass	98.91	92.64
4	31.76	Phenanthrene d10	40.00	Pass	141.32	119.10
5	37.11	Chrysene d12	40.00	Pass	57.39	60.17
6	40.37	Perylene d12	40.00	Pass	27.23	28.70

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	99.12	50
10.72	Phenol d5	200.00	Pass	99.90	50
14.13	Nitrobenzene d5	100.00	Pass	38.61	39
22.69	2-Fluorobiphenyl	100.00	Pass	61.33	61
29.81	2,4,6-Tribromophenol	200.00	Pass	115.45	58
35.22	Terphenyl d14	100.00	Pass	95.41	95

4301012.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33561
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: BG-002BH 4-5

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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Chemron Sample #: 33561

SEMI-VOLATILES ANALYSIS REPORT

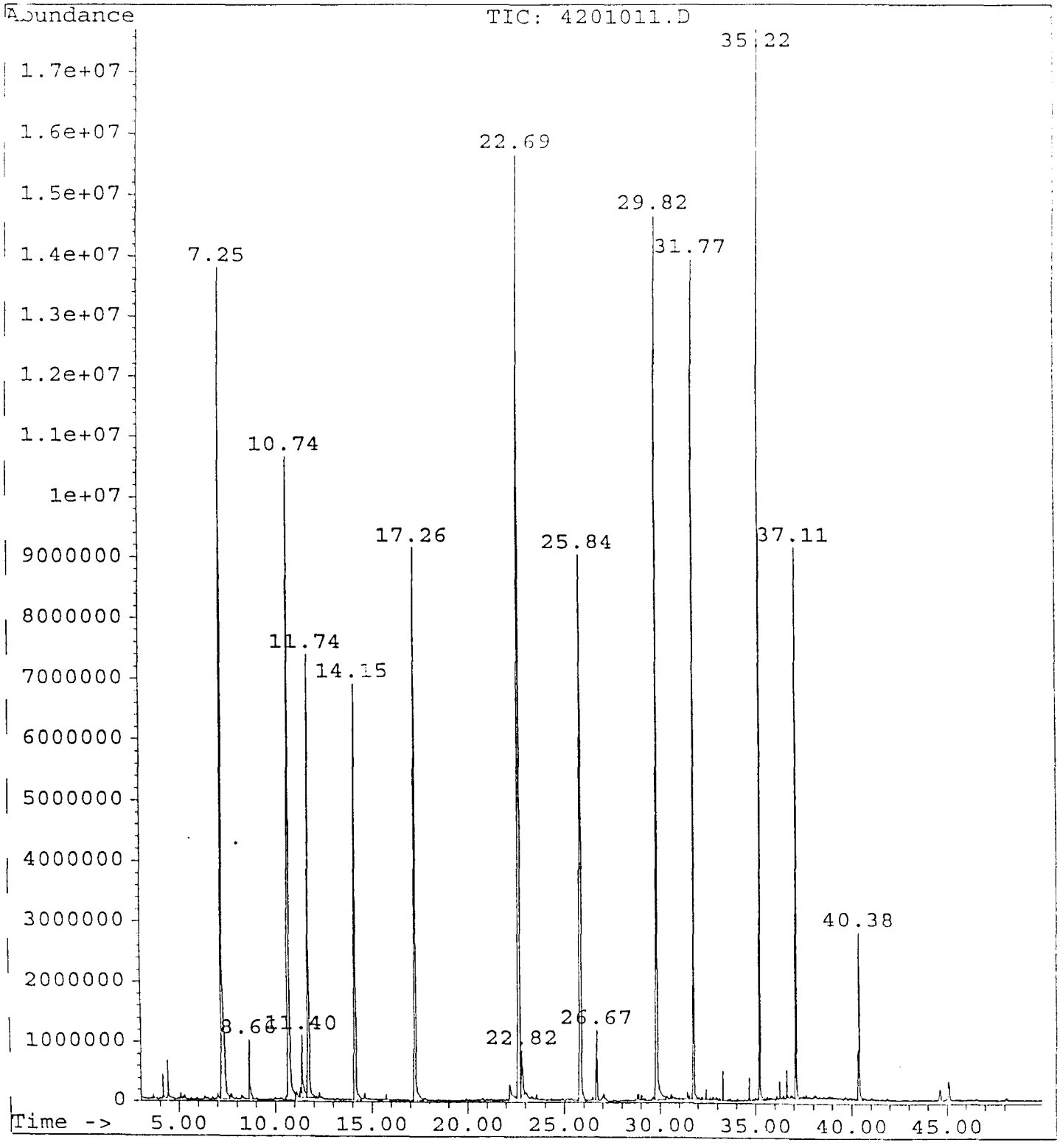
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: T. Ellman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\4201011.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 6:25 pm
Method File: 1118.M
Sample Name: 33561 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 42



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 4201011.D
Sample Desc. 33561 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 6:25 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.09	< DL	0.09	
3	42	5.880	N-Nitrosomethylethylamine		0.04	< DL	0.06	
4	112	7.383	2-Fluorophenol		166.40	139.99	0.14	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.09	< DL	0.06	
7	99	10.867	Phenol d5		227.39	140.18	0.13	
8	94	10.899	Phenol		0.51	< DL	0.12	
9	93	11.006	Bis(2-chloroethyl)ether		0.03	< DL	0.04	
10	128	11.018	2-Chlorophenol		0.25	< DL	0.07	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		47.06	40.00	0.02	
13	146	11.837	1,4-Dichlorobenzene		0.04	< DL	0.04	
14	146	12.404	1,2-Dichlorobenzene		0.04	< DL	0.02	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.03	< DL	0.06	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.07	< DL	0.12	
19	117	13.765	Hexachloroethane		0.01	< DL	0.05	
20	70	13.897	N-Nitrosodi-n-propylamine		13.52	11.38	0.25	
21	108	14.055	4-Methylphenol	*	0.00	< DL	14.05	
22	82	14.263	Nitrobenzene d5		98.64	55.40	0.11	
23	77	14.332	Nitrobenzene		0.04	< DL	0.03	
24	82	15.484	Isophorone		0.05	< DL	0.01	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.02	< DL	0.06	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.03	< DL	0.04	
30	136	17.300	Naphthalene d8		167.11	40.00	0.04	
31	128	17.414	Naphthalene		0.29	< DL	0.08	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.05	< DL	0.02	
37	84	19.779	N-Nitrosodi-n-butylamine		0.02	< DL	0.01	
38	107	20.573	4-Chloro-3-methylphenol		0.01	< DL	0.01	
39	115	20.763	2-Methylnaphthalene		0.03	< DL	0.05	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	223.88	82.67	0.06	
45	162	23.093	2-Chloronaphthalene	0.01	< DL	0.12	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.08	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.05	< DL	0.11	
50	164	25.898	Acenaphthene d10	96.61	40.00	0.06	
51	154	26.119	Acenaphthene	0.34	< DL	0.28	
52	138	26.138	3-Nitroaniline	0.01	< DL	0.32	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.01	< DL	0.05	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.30	< DL	0.16	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.17	< DL	0.32	
66	169	29.666	N-Nitroso-di-n-phenylamine **	2.10	1.15	0.16	trace
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.09	< DL	0.07	
68	330	29.900	2,4,6-Tribromophenol	59.93	136.05	0.08	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.01	< DL	0.28	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.02	< DL	0.01	
75	188	31.795	Phenanthrene d10	128.10	40.00	0.03	
76	178	31.871	Phenanthrene	0.16	< DL	0.07	
77	178	31.871	Anthracene	0.16	< DL	0.07	
78	149	33.316	Di-n-butylphthalate	5.30	< DL	0.04	
79	202	34.450	Fluoranthene	0.14	< DL	0.02	
80	184	34.799	Benzidine	2.09	2.53	0.42	trace
81	202	34.894	Pyrene	0.14	< DL	0.03	
82	244	35.224	Terphenyl d14	167.80	101.52	0.00	
83	149	36.132	Butylbenzylphthalate	0.28	< DL	0.02	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.33	< DL	0.01	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.90	1.00	0.01	trace
87	240	37.142	Chrysene d12	58.61	40.00	0.03	
88	228	37.180	Chrysene	0.33	< DL	0.07	
89	149	38.418	Di-n-octylphthalate	0.22	< DL	0.08	
90	252	39.389	Benzo(b)fluoranthene	0.05	< DL	0.01	
91	252	39.452	Benzo(k)fluoranthene	0.05	< DL	0.07	
92	252	40.239	Benzo(a)pyrene	0.14	< DL	0.14	
93	264	40.378	Perylene d12	29.75	40.00	0.00	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

4201011.D

Chemron Inc
QC Summary Report

Data File 4201011.D
Sample Desc. 33561 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 6:25 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.74	1,4-Dichlorobenzene d4	40.00	Pass	47.11	47.06
2	17.26	Napthalene d8	40.00	Pass	173.11	167.11
3	25.84	Acenaphthene d10	40.00	Pass	98.91	96.61
4	31.77	Phenanthrene d10	40.00	Pass	141.32	128.10
5	37.11	Chrysene d12	40.00	Pass	57.39	58.61
6	40.38	Perylene d12	40.00	Pass	27.23	29.75

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	139.99	70
10.74	Phenol d5	200.00	Pass	140.18	70
14.15	Nitrobenzene d5	100.00	Pass	55.40	55
22.69	2-Fluorobiphenyl	100.00	Pass	82.67	83
29.82	2,4,6-Tribromophenol	200.00	Pass	136.05	68
35.22	Terphenyl d14	100.00	Pass	101.52	102

4201011.D

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INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/25/94
Chemron Sample #: 33560
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: BG-002BH 1-2

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

CHEMRON
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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33560

SEMI-VOLATILES ANALYSIS REPORT

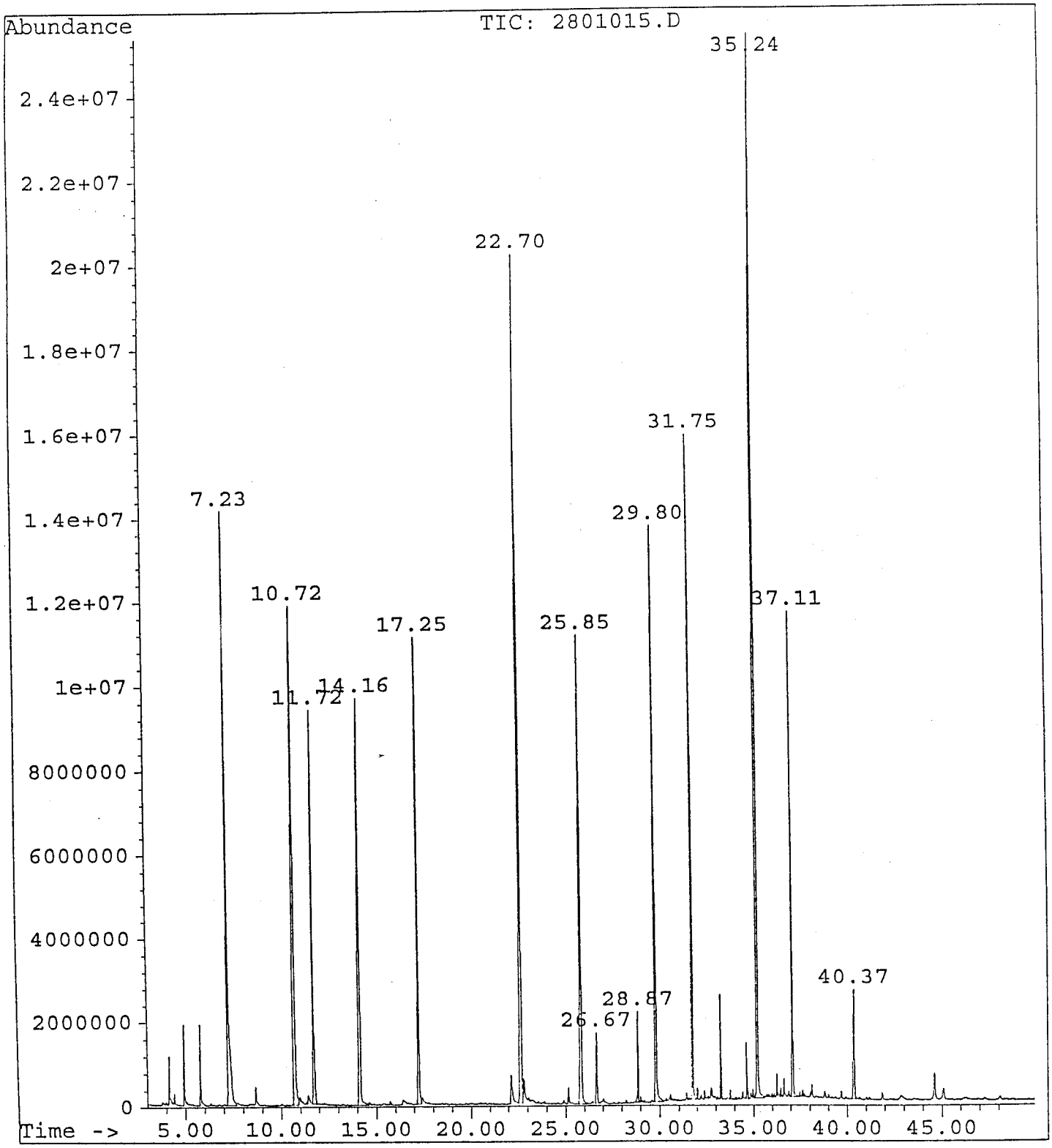
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Oldham

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\2801015.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 1:09 am
Method File: 1118.M
Sample Name: 33560 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 28



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 2801015.D
Sample Desc. 33560 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 1:09 am
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.649	Pyridine		0.00	< DL	3.65	
2	42	3.687	N-Nitrosodimethylamine		0.00	< DL	3.69	
3	42	5.831	N-Nitrosomethylethylamine		1.57	1.25	0.05	trace
4	112	7.297	2-Fluorophenol		169.75	113.74	0.05	
5	102	7.933	N-Nitrosodiethylamine		0.01	< DL	0.10	
6	93	10.549	Aniline		0.02	< DL	0.03	
7	99	10.782	Phenol d5		216.75	106.43	0.06	
8	94	10.820	Phenol		0.29	< DL	0.06	
9	93	10.933	Bis(2-chloroethyl)ether		0.02	< DL	0.01	
10	128	10.971	2-Chlorophenol		0.25	< DL	0.02	
11	146	11.481	1,3-Dichlorobenzene		0.01	< DL	0.24	
12	152	11.736	1,4-Dichlorobenzene d4		59.09	40.00	0.01	
13	146	11.802	1,4-Dichlorobenzene		0.02	< DL	0.00	
14	146	12.382	1,2-Dichlorobenzene		0.02	< DL	0.00	
15	108	12.577	Benzyl alcohol		0.01	< DL	0.31	
16	45	13.144	Bis(2-chloroisopropyl)ether		0.03	< DL	0.03	
17	108	13.352	2-Methylphenol		0.00	< DL	13.35	
18	105	13.610	Acetophenone		0.02	< DL	0.04	
19	117	13.749	Hexachloroethane		0.00	< DL	13.75	
20	70	13.806	N-Nitrosodi-n-propylamine		0.00	< DL	13.81	
21	108	13.970	4-Methylphenol	*	0.02	< DL	0.19	
22	82	14.203	Nitrobenzene d5		142.53	63.84	0.05	
23	77	14.278	Nitrobenzene		0.73	< DL	0.12	
24	82	15.412	Isophorone		0.04	< DL	0.01	
25	139	15.658	2-Nitrophenol		0.00	< DL	15.66	
26	122	16.225	2,4-Dimethylphenol		0.00	< DL	16.22	
27	93	16.603	Bis(2-chloroethoxy)methane		0.01	< DL	0.27	
28	162	16.868	2,4-Dichlorophenol		0.00	< DL	16.87	
29	180	17.082	1,2,4-Trichlorobenzene		0.03	< DL	0.00	
30	136	17.284	Napthalene d8		209.54	40.00	0.04	
31	128	17.379	Naphthalene		0.11	< DL	0.05	
32	122	17.398	Benzoic acid		0.06	< DL	0.13	
33	58	17.758	a-,a-Dimethylphenethylamine		0.07	< DL	0.08	
34	162	17.853	2,6-Dichlorophenol		0.00	< DL	17.85	
35	127	17.891	4-Chloroaniline		0.00	< DL	17.89	
36	225	18.099	Hexachlorobutadiene		0.00	< DL	18.10	
37	84	19.718	N-Nitrosodi-n-butylamine		0.06	< DL	0.00	
38	107	20.518	4-Chloro-3-methylphenol		0.01	< DL	0.01	
39	115	20.726	2-Methylnaphthalene		0.01	< DL	0.03	
40	237	21.540	Hexachlorocyclopentadiene		0.00	< DL	21.54	
41	216	21.552	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.55	
42	196	22.277	2,4,6-Trichlorophenol		0.00	< DL	22.28	
43	196	22.460	2,4,5-Trichlorophenol		0.00	< DL	22.46	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.713	2-Fluorobiphenyl	301.01	91.50	0.01	
45	162	23.054	2-Chloronaphthalene	0.09	< DL	0.09	
46	65	23.804	2-Nitroaniline	0.01	< DL	0.01	
47	163	25.001	Dimethylphthalate	0.19	< DL	0.11	
48	152	25.039	Acenaphthylene	0.01	< DL	0.12	
49	165	25.191	2,6-Dinitrotoluene	1.15	1.00	0.04	trace
50	164	25.852	Acenaphthene d10	117.36	40.00	0.02	
51	138	26.042	3-Nitroaniline	0.00	< DL	26.04	
52	154	26.061	Acenaphthene	0.04	< DL	0.07	
53	184	26.789	2,4-Dinitrophenol	0.00	< DL	26.79	
54	250	26.931	Pentachlorobenzene	0.00	< DL	26.93	
55	168	27.216	Dibenzofuran	0.00	< DL	27.22	
56	165	27.614	2,4-Dinitrotoluene	0.01	< DL	0.22	
57	143	27.734	1-Naphthylamine	0.00	< DL	27.73	
58	139	27.841	4-Nitrophenol	0.01	< DL	0.13	
59	232	28.069	2,3,4,6-Tetrachlorophenol	0.11	< DL	0.16	
60	143	28.202	2-Naphthylamine	0.01	< DL	0.01	
61	166	28.904	Fluorene	0.02	< DL	0.05	
62	149	28.980	Diethylphthalate	3.79	< DL	0.11	
63	204	29.094	4-Chorophenylphenyl ether	0.00	< DL	29.09	
64	138	29.315	4-Nitroaniline	0.01	< DL	0.14	
65	198	29.416	4,6-Dinitro-2-methylphenol	0.01	< DL	0.41	
66	169	29.626	N-Nitroso-di-n-phenylamine **	1.78	< DL	0.17	
67	77	29.682	1,2-Diphenylhydrazine/Azobenze	0.08	< DL	0.09	
68	330	29.854	2,4,6-Tribromophenol	48.55	90.72	0.05	
69	248	30.683	4-Bromophenylphenylether	0.00	< DL	30.68	
70	284	30.728	Hexachlorobenzene	0.00	< DL	30.73	
71	108	30.804	Phenacetin	0.02	< DL	0.00	
72	295	31.367	Pentachloronitrobenzene	0.00	< DL	31.37	
73	266	31.393	Pentachlorophenol	0.00	< DL	31.39	
74	169	31.431	4-Aminobiphenyl	0.02	< DL	0.02	
75	188	31.773	Phenanthrene d10	161.08	40.00	0.02	
76	178	31.831	Phenanthrene	0.11	< DL	0.11	
77	178	31.831	Anthracene	0.11	< DL	0.11	
78	149	33.313	Di-n-butylphthalate	23.15	3.45	0.03	trace
79	202	34.433	Fluoranthene	1.20	< DL	0.01	
80	184	34.775	Benzidine	4.97	4.64	0.46	trace
81	202	34.870	Pyrene	1.04	< DL	0.01	
82	244	35.213	Terphenyl d14	224.20	104.69	0.02	
83	149	36.126	Butylbenzylphthalate	0.62	< DL	0.02	
84	252	37.072	3,3-Dichlorobenzidine	0.00	< DL	37.07	
85	240	37.129	Chrysene d12	75.93	40.00	0.02	
86	149	37.148	Bis(2-ethylhexyl)phthalate	2.64	1.07	0.02	trace
87	228	37.170	Chrysene	0.99	< DL	0.08	
88	228	37.174	Benzo(a)anthracene	0.99	< DL	0.08	
89	149	38.419	Di-n-octylphthalate	0.27	< DL	0.07	
90	252	39.395	Benzo(b)fluoranthene	0.33	< DL	0.03	
91	252	39.460	Benzo(k)fluoranthene	0.33	< DL	0.09	
92	252	40.240	Benzo(a)pyrene	0.13	< DL	0.02	
93	264	40.392	Perylene d12	28.75	40.00	0.04	
94	268	41.279	3-Methylcholanthrene	0.00	< DL	41.28	
95	276	44.118	Indeno(1,2,3-cd)pyrene	0.01	< DL	0.02	
96	278	44.204	Dibenz(a,h)anthracene	0.00	< DL	44.20	
97	276	45.272	Benzo(g,h,i)perylene	0.00	< DL	45.27	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

2301015.D

Chemron Inc
QC Summary Report

Data File 2801015.D
Sample Desc. 33560 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 1:09 am
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.72	1,4-Dichlorobenzene d4	40.00	Pass	59.35	59.09
2	17.25	Napthalene d8	40.00	Pass	206.23	209.54
3	25.84	Acenaphthene d10	40.00	Pass	118.82	117.36
4	31.75	Phenanthrene d10	40.00	Pass	164.61	161.08
5	37.11	Chrysene d12	40.00	Pass	81.21	75.93
6	40.35	Perylene d12	40.00	Pass	40.13	28.75

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.25	2-Fluorophenol	200.00	Pass	113.74	57
10.72	Phenol d5	200.00	Pass	106.43	53
14.16	Nitrobenzene d5	100.00	Pass	63.84	64
22.70	2-Fluorobiphenyl	100.00	Pass	91.50	91
29.80	2,4,6-Tribromophenol	200.00	Pass	90.72	45
35.24	Terphenyl d14	100.00	Pass	104.69	105

2801015.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/26/94
Chemron Sample #: 33559
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: BG-001BH 7-8

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/25/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/25/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/25/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/25/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/25/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/25/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/25/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/25/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/25/94	8270
Isophorone	0.33	MG/KG	ND	01/25/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/25/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/25/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/25/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/25/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/25/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Naphthalene	0.33	MG/KG	ND	01/25/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/25/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/25/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/25/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/25/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/25/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/25/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/25/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/25/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/25/94	8270

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Chemron Sample #: 33559

SEMI-VOLATILES ANALYSIS REPORT

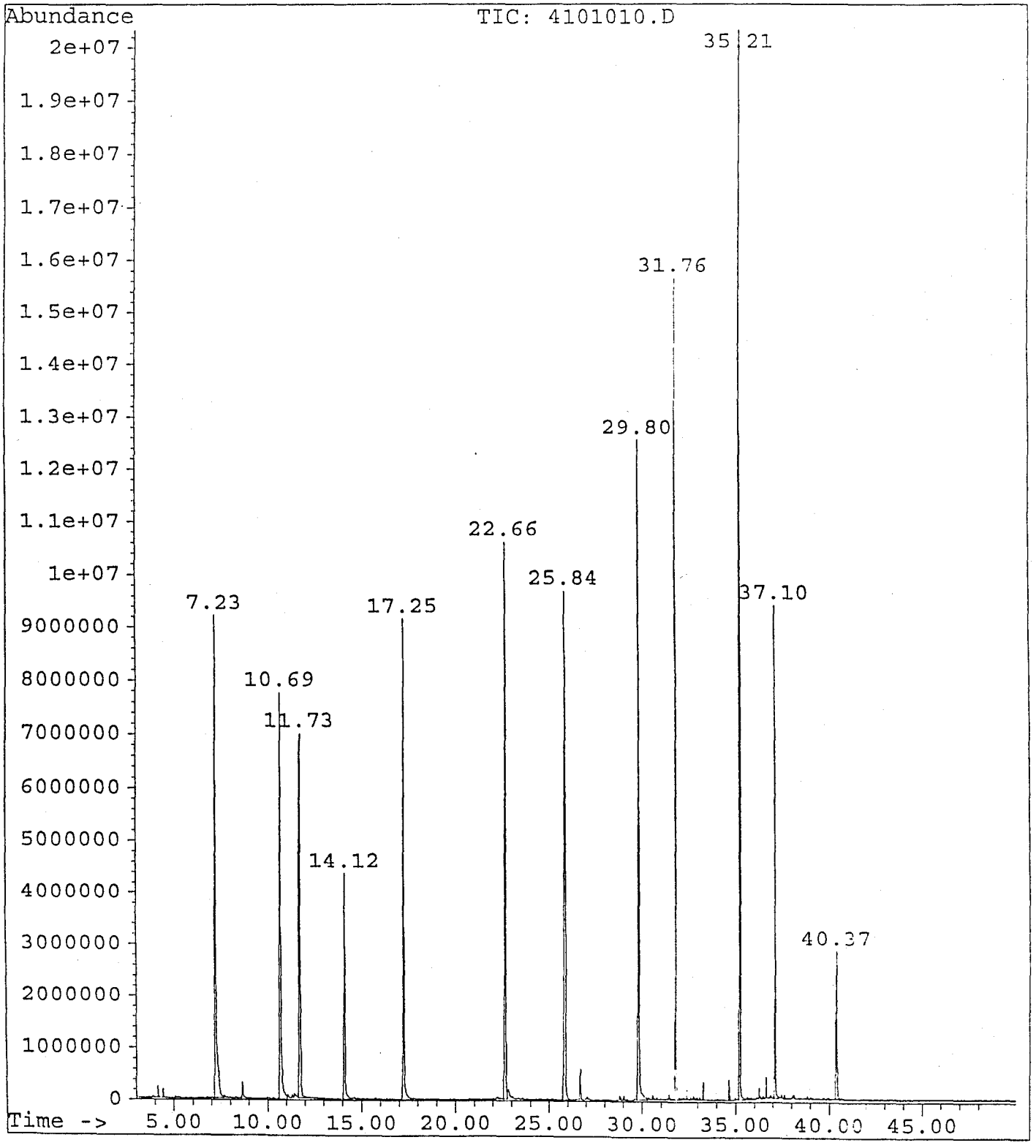
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
Acenaphthene	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/25/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/25/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/25/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/25/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Fluorene	0.33	MG/KG	ND	01/25/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/25/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/25/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/25/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/25/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/25/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/25/94	8270
Phenanthrene	0.33	MG/KG	ND	01/25/94	8270
Anthracene	0.33	MG/KG	ND	01/25/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/25/94	8270
Fluoranthene	0.33	MG/KG	ND	01/25/94	8270
Pyrene	0.40	MG/KG	ND	01/25/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/25/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/25/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/25/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/25/94	8270
Chrysene	0.33	MG/KG	ND	01/25/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/25/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/25/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/25/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/25/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/25/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/25/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/25/94	8270

ND - Not Detected

Approved By: R. Chacon

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\4101010.D
Operator: Vergel C.
Date Acquired: 25 Jan 94 5:23 pm
Method File: 1118.M
Sample Name: 33559 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 41



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 4101010.D
Sample Desc. 33559 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 5:23 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.710	Pyridine		0.00	< DL	3.71	
2	42	3.762	N-Nitrosodimethylamine		0.05	< DL	0.10	
3	42	5.880	N-Nitrosomethylethylamine		0.03	< DL	0.05	
4	112	7.383	2-Fluorophenol		101.47	78.16	0.16	
5	102	7.987	N-Nitrosodiethylamine		0.00	< DL	7.99	
6	93	10.590	Aniline		0.04	< DL	0.08	
7	99	10.867	Phenol d5		131.12	74.01	0.17	
8	94	10.899	Phenol		0.24	< DL	0.17	
9	93	11.006	Bis(2-chloroethyl)ether		0.01	< DL	0.05	
10	128	11.018	2-Chlorophenol		0.13	< DL	0.08	
11	146	11.497	1,3-Dichlorobenzene		0.00	< DL	11.50	
12	152	11.762	1,4-Dichlorobenzene d4		51.40	40.00	0.03	
13	146	11.837	1,4-Dichlorobenzene		0.02	< DL	0.05	
14	146	12.404	1,2-Dichlorobenzene		0.02	< DL	0.03	
15	108	12.649	Benzyl alcohol		0.00	< DL	12.65	
16	45	13.141	Bis(2-chloroisopropyl)ether		0.02	< DL	0.05	
17	108	13.493	2-Methylphenol		0.00	< DL	13.49	
18	105	13.689	Acetophenone		0.02	< DL	0.11	
19	117	13.765	Hexachloroethane		0.00	< DL	13.76	
20	70	13.897	N-Nitrosodi-n-propylamine		7.21	5.55	0.23	trace
21	108	14.055	4-Methylphenol	*	0.01	< DL	0.07	
22	82	14.263	Nitrobenzene d5		56.45	31.15	0.14	
23	77	14.332	Nitrobenzene		0.28	< DL	0.21	
24	82	15.484	Isophorone		0.07	< DL	0.13	
25	139	15.692	2-Nitrophenol		0.00	< DL	15.69	
26	122	16.278	2,4-Dimethylphenol		0.00	< DL	16.28	
27	93	16.643	Bis(2-chloroethoxy)methane		0.00	< DL	16.64	
28	162	16.902	2,4-Dichlorophenol		0.00	< DL	16.90	
29	180	17.110	1,2,4-Trichlorobenzene		0.00	< DL	17.11	
30	136	17.300	Napthalene d8		170.07	40.00	0.05	
31	128	17.414	Naphthalene		0.11	< DL	0.09	
32	122	17.767	Benzoic acid		0.00	< DL	17.77	
33	162	17.887	2,6-Dichlorophenol		0.00	< DL	17.89	
34	127	17.944	4-Chloroaniline		0.00	< DL	17.94	
35	225	18.115	Hexachlorobutadiene		0.00	< DL	18.12	
36	58	18.393	a-,a-Dimethylphenethylamine		0.01	< DL	0.05	
37	84	19.779	N-Nitrosodi-n-butylamine		0.01	< DL	0.44	
38	107	20.573	4-Chloro-3-methylphenol		0.00	< DL	20.57	
39	115	20.763	2-Methylnaphthalene		0.00	< DL	20.76	
40	237	21.533	Hexachlorocyclopentadiene		0.00	< DL	21.53	
41	216	21.577	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.58	
42	196	22.315	2,4,6-Trichlorophenol		0.00	< DL	22.31	
43	196	22.504	2,4,5-Trichlorophenol		0.00	< DL	22.50	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.752	2-Fluorobiphenyl	136.45	47.60	0.09	
45	162	23.093	2-Chloronaphthalene	0.01	< DL	0.11	
46	65	23.868	2-Nitroaniline	0.01	< DL	0.11	
47	163	24.945	Dimethylphthalate	0.00	< DL	24.95	
48	152	25.078	Acenaphthylene	0.00	< DL	25.08	
49	165	25.268	2,6-Dinitrotoluene	0.00	< DL	25.27	
50	164	25.898	Acenaphthene d10	102.26	40.00	0.06	
51	154	26.119	Acenaphthene	0.34	< DL	0.30	
52	138	26.138	3-Nitroaniline	0.00	< DL	26.14	
53	184	26.913	2,4-Dinitrophenol	0.00	< DL	26.91	
54	250	26.977	Pentachlorobenzene	0.00	< DL	26.98	
55	168	27.274	Dibenzofuran	0.00	< DL	27.27	
56	165	27.710	2,4-Dinitrotoluene	0.00	< DL	27.71	
57	143	27.792	1-Naphthylamine	0.00	< DL	27.79	
58	139	27.849	4-Nitrophenol	0.00	< DL	27.85	
59	232	28.121	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.12	
60	143	28.261	2-Naphthylamine	0.00	< DL	28.26	
61	166	28.925	Fluorene	0.00	< DL	28.92	
62	149	29.058	Diethylphthalate	0.14	< DL	0.18	
63	204	29.115	4-Chorophenylphenyl ether	0.00	< DL	29.11	
64	138	29.437	4-Nitroaniline	0.00	< DL	29.44	
65	198	29.501	4,6-Dinitro-2-methylphenol	0.14	< DL	0.30	
66	169	29.666	N-Nitroso-di-n-phenylamine **	1.80	< DL	0.13	
67	77	29.716	1,2-Diphenylhydrazine/Azobenze	0.31	< DL	0.08	
68	330	29.900	2,4,6-Tribromophenol	53.48	114.69	0.08	
69	248	30.705	4-Bromophenylphenylether	0.00	< DL	30.70	
70	284	30.749	Hexachlorobenzene	0.00	< DL	30.75	
71	108	30.882	Phenacetin	0.02	< DL	0.28	
72	295	31.395	Pentachloronitrobenzene	0.00	< DL	31.40	
73	266	31.433	Pentachlorophenol	0.00	< DL	31.43	
74	169	31.472	4-Aminobiphenyl	0.03	< DL	0.09	
75	188	31.795	Phenanthrene d10	139.56	40.00	0.03	
76	178	31.871	Phenanthrene	0.09	< DL	0.11	
77	178	31.871	Anthracene	0.09	< DL	0.11	
78	149	33.316	Di-n-butylphthalate	4.08	< DL	0.02	
79	202	34.450	Fluoranthene	0.04	< DL	0.20	
80	184	34.799	Benzidine	2.07	2.38	0.42	trace
81	202	34.894	Pyrene	0.04	< DL	0.25	
82	244	35.224	Terphenyl d14	175.91	101.52	0.01	
83	149	36.132	Butylbenzylphthalate	0.19	< DL	0.03	
84	252	37.078	3,3-Dichlorobenzidine	0.00	< DL	37.08	
85	228	37.100	Benzo(a)anthracene	0.23	< DL	0.00	
86	149	37.142	Bis(2-ethylhexyl)phthalate	1.29	< DL	0.02	
87	240	37.142	Chrysene d12	61.44	40.00	0.04	
88	228	37.180	Chrysene	0.23	< DL	0.08	
89	149	38.418	Di-n-octylphthalate	0.04	< DL	0.01	
90	252	39.389	Benzo(b)fluoranthene	0.00	< DL	39.39	
91	252	39.452	Benzo(k)fluoranthene	0.00	< DL	39.45	
92	252	40.239	Benzo(a)pyrene	0.15	< DL	0.13	
93	264	40.378	Perylene d12	34.13	40.00	0.01	
94	268	41.251	3-Methylcholanthrene	0.00	< DL	41.25	
95	276	44.141	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.14	
96	278	44.186	Dibenz(a,h)anthracene	0.00	< DL	44.19	
97	276	45.251	Benzo(g,h,i)perylene	0.00	< DL	45.25	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

4101010.D

Chemron Inc
QC Summary Report

Data File 4101010.D
Sample Desc. 33559 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 25 Jan 94 5:23 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.73	1,4-Dichlorobenzene d4	40.00	Pass	47.11	51.40
2	17.25	Napthalene d8	40.00	Pass	173.11	170.07
3	25.84	Acenaphthene d10	40.00	Pass	98.91	102.26
4	31.76	Phenanthrene d10	40.00	Pass	141.32	139.56
5	37.10	Chrysene d12	40.00	Pass	57.39	61.44
6	40.37	Perylene d12	40.00	Pass	27.23	34.13

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	78.16	39
10.69	Phenol d5	200.00	Pass	74.01	37
14.12	Nitrobenzene d5	100.00	Pass	31.15	31
22.66	2-Fluorobiphenyl	100.00	Pass	47.60	48
29.82	2,4,6-Tribromophenol	200.00	Pass	114.69	57
35.21	Terphenyl d14	100.00	Pass	101.52	102

4101010.D

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/25/94
Chemron Sample #: 33558
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: BG-001BH 4-5

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/24/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/24/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/24/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/24/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/24/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/24/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/24/94	8270
Isophorone	0.33	MG/KG	ND	01/24/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/24/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/24/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/24/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/24/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Naphthalene	0.33	MG/KG	ND	01/24/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/24/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/24/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/24/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/24/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/24/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/24/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/24/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/24/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/24/94	8270

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Chemron Sample #: 33558

SEMI-VOLATILES ANALYSIS REPORT

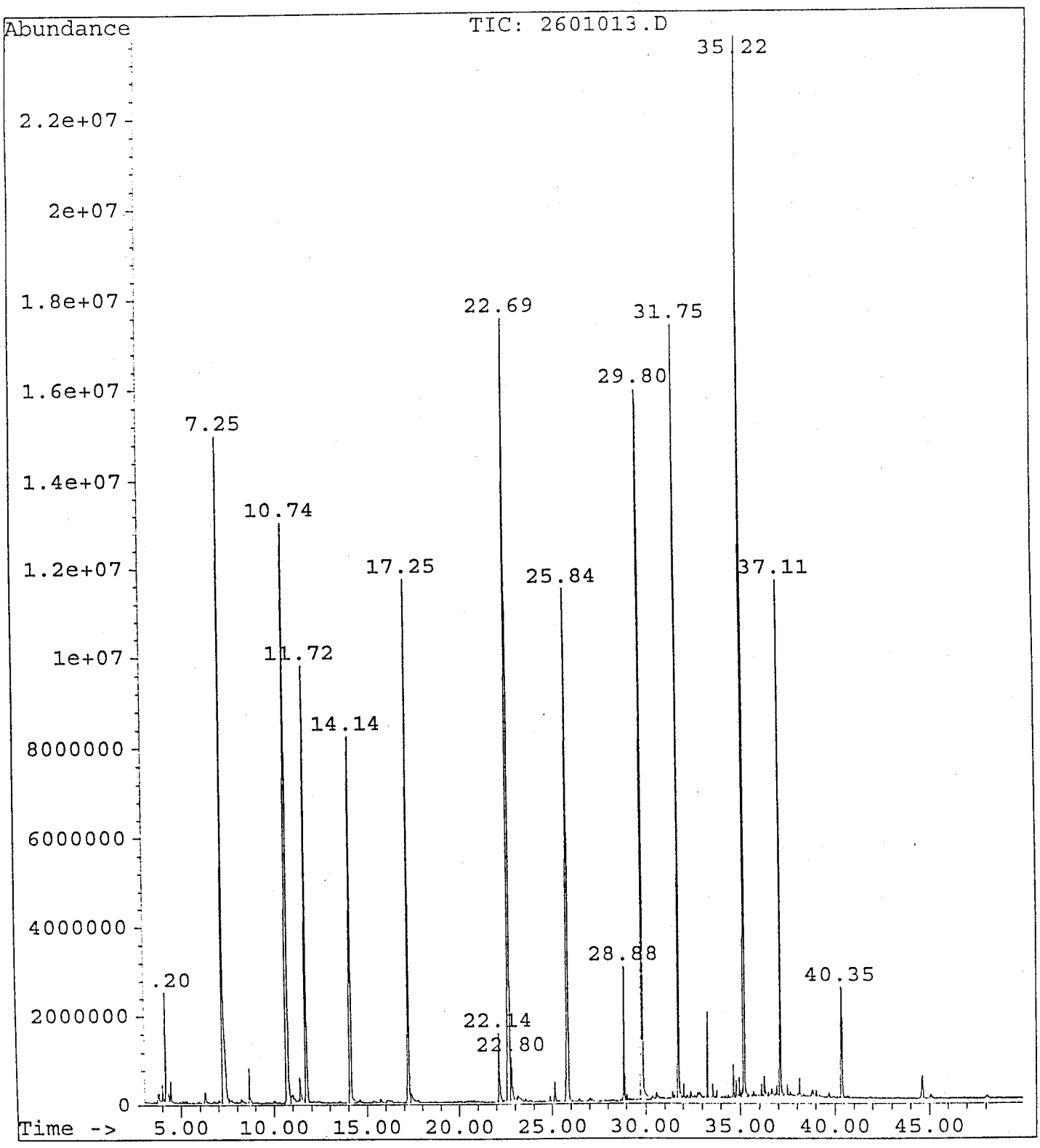
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Acenaphthene	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/24/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/24/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Fluorene	0.33	MG/KG	ND	01/24/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/24/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/24/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/24/94	8270
Phenanthrene	0.33	MG/KG	ND	01/24/94	8270
Anthracene	0.33	MG/KG	ND	01/24/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/24/94	8270
Fluoranthene	0.33	MG/KG	ND	01/24/94	8270
Pyrene	0.40	MG/KG	ND	01/24/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/24/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/24/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/24/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/24/94	8270
Chrysene	0.33	MG/KG	ND	01/24/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/24/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/24/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/24/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/24/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/24/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/24/94	8270

ND - Not Detected

Approved By: R. Ackman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\2601013.D
Operator: Vergel C.
Date Acquired: 24 Jan 94 11:04 pm
Method File: 1118.M
Sample Name: 33558 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 26



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 2601013.D
Sample Desc. 33558 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 11:04 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.649	Pyridine		0.00	< DL	3.65	
2	42	3.687	N-Nitrosodimethylamine		0.00	< DL	3.69	
3	42	5.831	N-Nitrosomethylethylamine		0.04	< DL	0.05	
4	112	7.297	2-Fluorophenol		174.46	115.24	0.03	
5	102	7.933	N-Nitrosodiethylamine		0.01	< DL	0.23	
6	93	10.549	Aniline		0.03	< DL	0.02	
7	99	10.782	Phenol d5		247.22	119.67	0.04	
8	94	10.820	Phenol		0.43	< DL	0.06	
9	93	10.933	Bis(2-chloroethyl)ether		0.02	< DL	0.03	
10	128	10.971	2-Chlorophenol		0.25	< DL	0.02	
11	146	11.481	1,3-Dichlorobenzene		0.02	< DL	0.02	
12	152	11.736	1,4-Dichlorobenzene d4		59.94	40.00	0.01	
13	146	11.802	1,4-Dichlorobenzene		0.01	< DL	0.02	
14	146	12.382	1,2-Dichlorobenzene		0.04	< DL	0.02	
15	108	12.577	Benzyl alcohol		0.03	< DL	0.13	
16	45	13.144	Bis(2-chloroisopropyl)ether		0.02	< DL	0.02	
17	108	13.352	2-Methylphenol		0.01	< DL	0.07	
18	105	13.610	Acetophenone		0.05	< DL	0.08	
19	117	13.749	Hexachloroethane		0.01	< DL	0.25	
20	70	13.806	N-Nitrosodi-n-propylamine		0.00	< DL	13.81	
21	108	13.970	4-Methylphenol	*	0.04	< DL	0.15	
22	82	14.203	Nitrobenzene d5		121.38	52.54	0.06	
23	77	14.278	Nitrobenzene		0.61	< DL	0.14	
24	82	15.412	Isophorone		0.02	< DL	0.01	
25	139	15.658	2-Nitrophenol		0.00	< DL	15.66	
26	122	16.225	2,4-Dimethylphenol		0.02	< DL	0.08	
27	93	16.603	Bis(2-chloroethoxy)methane		0.01	< DL	0.06	
28	162	16.868	2,4-Dichlorophenol		0.00	< DL	16.87	
29	180	17.082	1,2,4-Trichlorobenzene		0.03	< DL	0.02	
30	136	17.284	Napthalene d8		216.82	40.00	0.03	
31	128	17.379	Naphthalene		0.16	< DL	0.05	
32	122	17.398	Benzoic acid		0.07	< DL	0.15	
33	58	17.758	a-,a-Dimethylphenethylamine		0.08	< DL	0.02	
34	162	17.853	2,6-Dichlorophenol		0.00	< DL	17.85	
35	127	17.891	4-Chloroaniline		0.00	< DL	17.89	
36	225	18.099	Hexachlorobutadiene		0.00	< DL	18.10	
37	84	19.718	N-Nitrosodi-n-butylamine		0.10	< DL	0.00	
38	107	20.518	4-Chloro-3-methylphenol		0.02	< DL	0.09	
39	115	20.726	2-Methylnaphthalene		0.01	< DL	0.02	
40	237	21.540	Hexachlorocyclopentadiene		0.00	< DL	21.54	
41	216	21.552	1,2,4,5-Tetrachlorobenzene		0.01	< DL	0.11	
42	196	22.277	2,4,6-Trichlorophenol		0.00	< DL	22.28	
43	196	22.460	2,4,5-Trichlorophenol		0.00	< DL	22.46	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.713	2-Fluorobiphenyl	242.79	73.21	0.03	
45	162	23.054	2-Chloronaphthalene	0.07	< DL	0.08	
46	65	23.804	2-Nitroaniline	0.05	< DL	0.02	
47	163	25.001	Dimethylphthalate	0.26	< DL	0.13	
48	152	25.039	Acenaphthylene	0.04	< DL	0.10	
49	165	25.191	2,6-Dinitrotoluene	1.31	1.14	0.03	trace
50	164	25.852	Acenaphthene d10	118.31	40.00	0.01	
51	138	26.042	3-Nitroaniline	0.01	< DL	0.18	
52	154	26.061	Acenaphthene	0.42	< DL	0.22	
53	184	26.789	2,4-Dinitrophenol	0.00	< DL	26.79	
54	250	26.931	Pentachlorobenzene	0.00	< DL	26.93	
55	168	27.216	Dibenzofuran	0.00	< DL	27.22	
56	165	27.614	2,4-Dinitrotoluene	0.03	< DL	0.22	
57	143	27.734	1-Naphthylamine	0.00	< DL	27.73	
58	139	27.841	4-Nitrophenol	0.00	< DL	27.84	
59	232	28.069	2,3,4,6-Tetrachlorophenol	0.00	< DL	28.07	
60	143	28.202	2-Naphthylamine	0.00	< DL	28.20	
61	166	28.904	Fluorene	0.01	< DL	0.03	
62	149	28.980	Diethylphthalate	4.63	1.20	0.10	trace
63	204	29.094	4-Chorophenylphenyl ether	0.00	< DL	29.09	
64	138	29.315	4-Nitroaniline	0.00	< DL	29.32	
65	198	29.416	4,6-Dinitro-2-methylphenol	0.23	< DL	0.39	
66	169	29.626	N-Nitroso-di-n-phenylamine **	2.61	1.16	0.18	trace
67	77	29.682	1,2-Diphenylhydrazine/Azobenze	0.45	< DL	0.12	
68	330	29.854	2,4,6-Tribromophenol	67.85	125.77	0.03	
69	248	30.683	4-Bromophenylphenylether	0.00	< DL	30.68	
70	284	30.728	Hexachlorobenzene	0.00	< DL	30.73	
71	108	30.804	Phenacetin	0.03	< DL	0.00	
72	295	31.367	Pentachloronitrobenzene	0.00	< DL	31.37	
73	266	31.393	Pentachlorophenol	0.00	< DL	31.39	
74	169	31.431	4-Aminobiphenyl	0.10	< DL	0.06	
75	188	31.773	Phenanthrene d10	158.08	40.00	0.02	
76	178	31.831	Phenanthrene	0.14	< DL	0.08	
77	178	31.831	Anthracene	0.14	< DL	0.08	
78	149	33.313	Di-n-butylphthalate	20.36	3.09	0.03	trace
79	202	34.433	Fluoranthene	0.04	< DL	0.01	
80	184	34.775	Benzidine	3.05	2.95	0.44	trace
81	202	34.870	Pyrene	0.17	< DL	0.07	
82	244	35.213	Terphenyl d14	227.80	110.10	0.00	
83	149	36.126	Butylbenzylphthalate	1.11	< DL	0.02	
84	252	37.072	3,3-Dichlorobenzidine	0.00	< DL	37.07	
85	240	37.129	Chrysene d12	73.36	40.00	0.02	
86	149	37.148	Bis(2-ethylhexyl)phthalate	2.03	< DL	0.02	
87	228	37.170	Chrysene	0.33	< DL	0.06	
88	228	37.174	Benzo(a)anthracene	0.33	< DL	0.06	
89	149	38.419	Di-n-octylphthalate	0.31	< DL	0.07	
90	252	39.395	Benzo(b)fluoranthene	0.02	< DL	0.01	
91	252	39.460	Benzo(k)fluoranthene	0.02	< DL	0.07	
92	252	40.240	Benzo(a)pyrene	0.13	< DL	0.13	
93	264	40.392	Perylene d12	27.77	40.00	0.04	
94	268	41.279	3-Methylcholanthrene	0.01	< DL	0.41	
95	276	44.118	Indeno(1,2,3-cd)pyrene	0.00	< DL	44.12	
96	278	44.204	Dibenz(a,h)anthracene	0.00	< DL	44.20	
97	276	45.272	Benzo(g,h,i)perylene	0.00	< DL	45.27	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

2601013.D

Chemron Inc
QC Summary Report

Data File 2601013.D
Sample Desc. 33558 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 11:04 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.72	1,4-Dichlorobenzene d4	40.00	Pass	59.35	59.94
2	17.25	Napthalene d8	40.00	Pass	206.23	216.82
3	25.84	Acenaphthene d10	40.00	Pass	118.82	118.31
4	31.75	Phenanthrene d10	40.00	Pass	164.61	158.08
5	37.11	Chrysene d12	40.00	Pass	81.21	73.36
6	40.35	Perylene d12	40.00	Pass	40.13	27.77

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.27	2-Fluorophenol	200.00	Pass	115.24	58
10.74	Phenol d5	200.00	Pass	119.67	60
14.14	Nitrobenzene d5	100.00	Pass	52.54	53
22.69	2-Fluorobiphenyl	100.00	Pass	73.21	73
29.82	2,4,6-Tribromophenol	200.00	Pass	125.77	63
35.22	Terphenyl d14	100.00	Pass	110.10	110

2601013.D

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N. W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Report Date: 01/25/94
Chemron Sample #: 33557
Sample Matrix: Soil

Sample Description:
Project No. 1315-109
Project Name/Location: Garland ANGS/Garland, Texas
Client Sample #: BG-001BH 1-2

SEMI-VOLATILES ANALYSIS REPORT

ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
Phenol	0.40	MG/KG	ND	01/24/94	8270
bis(2-Chloroethyl)ether	0.40	MG/KG	ND	01/24/94	8270
2-Chlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,3-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
1,4-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
Benzyl Alcohol	0.33	MG/KG	ND	01/24/94	8270
1,2-Dichlorobenzene	0.20	MG/KG	ND	01/24/94	8270
2-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
Bis(2-Chloroisopropyl)ether	0.40	MG/KG	ND	01/24/94	8270
4-Methylphenol	0.33	MG/KG	ND	01/24/94	8270
N-Nitros-Di-N-propylamine	0.70	MG/KG	ND	01/24/94	8270
Hexachloroethane	0.33	MG/KG	ND	01/24/94	8270
Nitrobenzene	0.33	MG/KG	ND	01/24/94	8270
Isophorone	0.33	MG/KG	ND	01/24/94	8270
2-Nitrophenol	0.40	MG/KG	ND	01/24/94	8270
2,4-Dimethylphenol	0.40	MG/KG	ND	01/24/94	8270
Benzoic Acid	2.00	MG/KG	ND	01/24/94	8270
bis(2-Chloroethoxy)methane	0.40	MG/KG	ND	01/24/94	8270
2,4-Dichlorophenol	0.40	MG/KG	ND	01/24/94	8270
1,2,4-Trichlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Naphthalene	0.33	MG/KG	ND	01/24/94	8270
4-Chloroaniline	0.40	MG/KG	ND	01/24/94	8270
Hexachlorobutadiene	0.33	MG/KG	ND	01/24/94	8270
4-Chloro-3-methylphenol	0.33	MG/KG	ND	01/24/94	8270
2-Methylnaphthalene	0.70	MG/KG	ND	01/24/94	8270
Hexachlorocyclopentadiene	0.33	MG/KG	ND	01/24/94	8270
2,4,6-Trichlorophenol	0.33	MG/KG	ND	01/24/94	8270
2,4,5-Trichlorophenol	1.60	MG/KG	ND	01/24/94	8270
2-Chloronaphthalene	0.70	MG/KG	ND	01/24/94	8270
2-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Dimethyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Acenaphthylene	0.33	MG/KG	ND	01/24/94	8270

CHEMRON
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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Chemron Sample #: 33557

SEMI-VOLATILES ANALYSIS REPORT

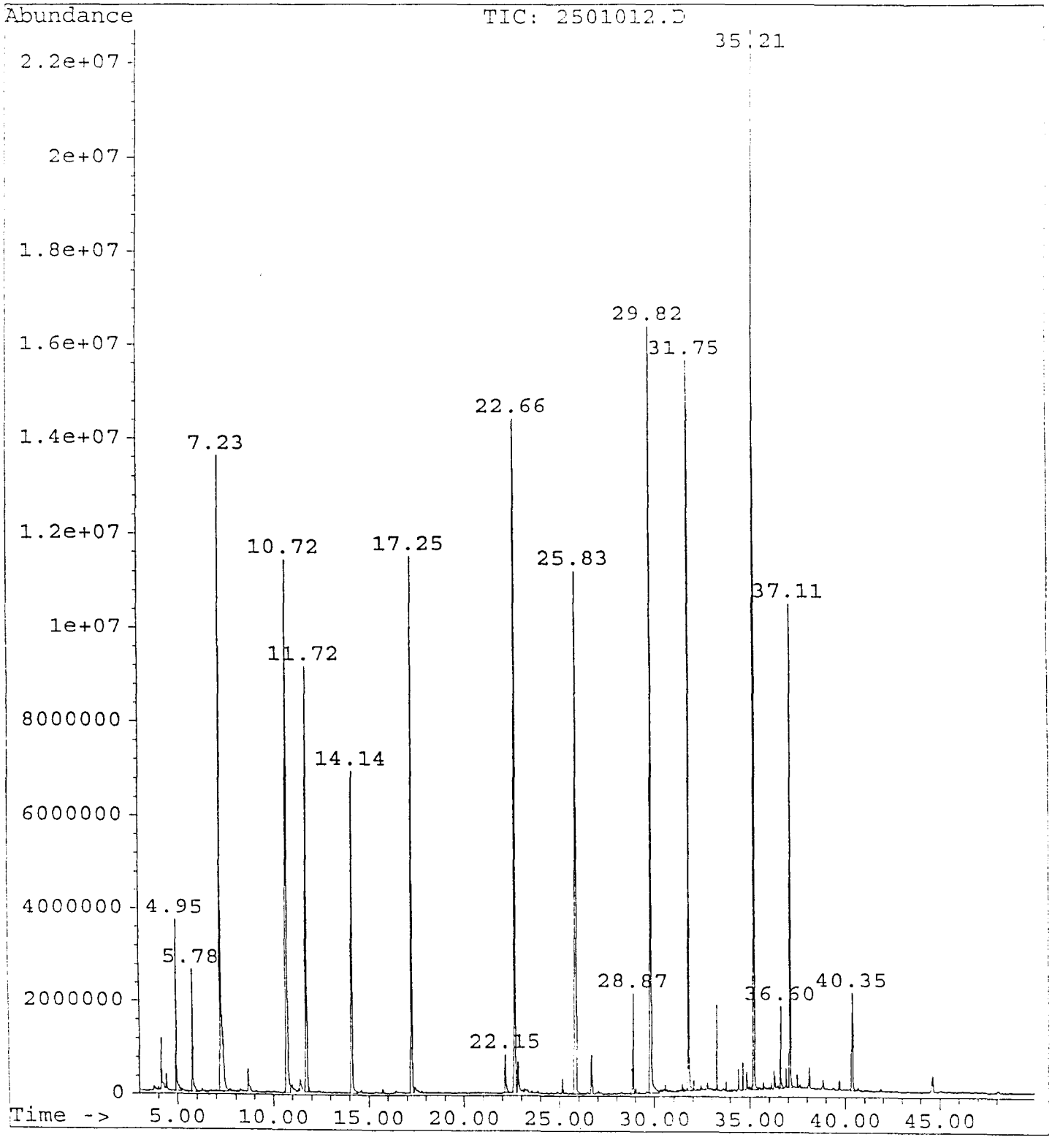
ANALYTE	MDL	Units	RESULTS	Date Analyzed	Test Method
3-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
Acenaphthene	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrophenol	1.70	MG/KG	ND	01/24/94	8270
4-Nitrophenol	1.70	MG/KG	ND	01/24/94	8270
Dibenzofuran	0.33	MG/KG	ND	01/24/94	8270
2,4-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
2,6-Dinitrotoluene	0.33	MG/KG	ND	01/24/94	8270
4-Chlorophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Fluorene	0.33	MG/KG	ND	01/24/94	8270
4-Nitroaniline	1.70	MG/KG	ND	01/24/94	8270
4,6-Dinitro-2-methylphenol	2.00	MG/KG	ND	01/24/94	8270
N-Nitrosodiphenylamine	0.89	MG/KG	ND	01/24/94	8270
4-Bromophenyl phenyl ether	0.33	MG/KG	ND	01/24/94	8270
Hexachlorobenzene	0.33	MG/KG	ND	01/24/94	8270
Pentachlorophenol	1.00	MG/KG	ND	01/24/94	8270
Phenanthrene	0.33	MG/KG	ND	01/24/94	8270
Anthracene	0.33	MG/KG	ND	01/24/94	8270
Di-n-butylphthalate	0.40	MG/KG	ND	01/24/94	8270
Fluoranthene	0.33	MG/KG	ND	01/24/94	8270
Pyrene	0.40	MG/KG	ND	01/24/94	8270
Butyl benzyl phthalate	0.33	MG/KG	ND	01/24/94	8270
3,3'-Dichlorobenzidine	1.60	MG/KG	ND	01/24/94	8270
Benzo(a)anthracene	0.33	MG/KG	ND	01/24/94	8270
bis(2-ethylhexyl)phthalate	0.40	MG/KG	ND	01/24/94	8270
Chrysene	0.33	MG/KG	ND	01/24/94	8270
Di-n-octyl phthalate	0.33	MG/KG	ND	01/24/94	8270
Benzo(b)fluoranthene	0.81	MG/KG	ND	01/24/94	8270
Benzo(k)fluoranthene	0.82	MG/KG	ND	01/24/94	8270
Benzo(a)pyrene	0.33	MG/KG	ND	01/24/94	8270
Indeno(1,2,3-cd)pyrene	0.40	MG/KG	ND	01/24/94	8270
Dibenz(a,h)anthracene	0.33	MG/KG	ND	01/24/94	8270
Benzo(g,h,i)perylene	0.33	MG/KG	ND	01/24/94	8270

ND - Not Detected

Approved By: R. Ellman

All test method numbers are references to US Environmental Protection Agency methods unless otherwise noted. MDLs shown represent the minimum detection limit for the analytical procedure used based on the amount of sample analyzed.

File: C:\CHEMPC\DATA\2501012.D
Operator: Vergel C.
Date Acquired: 24 Jan 94 10:01 pm
Method File: 1118.M
Sample Name: 33557 optech
Misc Info: HP 5970II ex: 01/20/94 30g/1mL BNA
ALS vial: 25



Chemron, Inc.

Semi-Volatiles Analysis Report
EPA SW-846 Method 8270

Data File: 2501012.D
Sample Desc. 33557 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 10:01 pm
Method: 1118.M
Chemist: Vergel C.

Cpd#	M/Z	RT (min.)	Analyte		Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
1	79	3.649	Pyridine		0.04	< DL	0.08	
2	42	3.687	N-Nitrosodimethylamine		0.00	< DL	3.69	
3	42	5.831	N-Nitrosomethylethylamine		2.32	1.92	0.05	trace
4	112	7.297	2-Fluorophenol		139.53	97.57	0.06	
5	102	7.933	N-Nitrosodiethylamine		0.01	< DL	0.10	
6	93	10.549	Aniline		0.01	< DL	0.03	
7	99	10.782	Phenol d5		196.85	100.87	0.06	
8	94	10.820	Phenol		0.32	< DL	0.08	
9	93	10.933	Bis(2-chloroethyl)ether		0.03	< DL	0.02	
10	128	10.971	2-Chlorophenol		0.19	< DL	0.02	
11	146	11.481	1,3-Dichlorobenzene		0.01	< DL	0.24	
12	152	11.736	1,4-Dichlorobenzene d4		56.62	40.00	0.01	
13	146	11.802	1,4-Dichlorobenzene		0.02	< DL	0.02	
14	146	12.382	1,2-Dichlorobenzene		0.01	< DL	0.02	
15	108	12.577	Benzyl alcohol		0.01	< DL	0.05	
16	45	13.144	Bis(2-chloroisopropyl)ether		0.02	< DL	0.05	
17	108	13.352	2-Methylphenol		0.01	< DL	0.31	
18	105	13.610	Acetophenone		0.03	< DL	0.06	
19	117	13.749	Hexachloroethane		0.01	< DL	0.14	
20	70	13.806	N-Nitrosodi-n-propylamine		0.00	< DL	13.81	
21	108	13.970	4-Methylphenol	*	0.02	< DL	0.13	
22	82	14.203	Nitrobenzene d5		88.83	41.77	0.07	
23	77	14.278	Nitrobenzene		0.04	< DL	0.03	
24	82	15.412	Isophorone		0.01	< DL	0.07	
25	139	15.658	2-Nitrophenol		0.00	< DL	15.66	
26	122	16.225	2,4-Dimethylphenol		0.02	< DL	0.10	
27	93	16.603	Bis(2-chloroethoxy)methane		0.01	< DL	0.09	
28	162	16.868	2,4-Dichlorophenol		0.00	< DL	16.87	
29	180	17.082	1,2,4-Trichlorobenzene		0.02	< DL	0.02	
30	136	17.284	Napthalene d8		199.61	40.00	0.03	
31	128	17.379	Naphthalene		0.16	< DL	0.05	
32	122	17.398	Benzoic acid		0.06	< DL	0.15	
33	58	17.758	a-,a-Dimethylphenethylamine		0.06	< DL	0.00	
34	162	17.853	2,6-Dichlorophenol		0.00	< DL	17.85	
35	127	17.891	4-Chloroaniline		0.00	< DL	17.89	
36	225	18.099	Hexachlorobutadiene		0.00	< DL	18.10	
37	84	19.718	N-Nitrosodi-n-butylamine		0.05	< DL	0.02	
38	107	20.518	4-Chloro-3-methylphenol		0.01	< DL	0.03	
39	115	20.726	2-Methylnaphthalene		0.02	< DL	0.02	
40	237	21.540	Hexachlorocyclopentadiene		0.00	< DL	21.54	
41	216	21.552	1,2,4,5-Tetrachlorobenzene		0.00	< DL	21.55	
42	196	22.277	2,4,6-Trichlorophenol		0.00	< DL	22.28	
43	196	22.460	2,4,5-Trichlorophenol		0.00	< DL	22.46	

Cpd#	M/Z	RT (min.)	Analyte	Area (x100000)	Results (ug/ml)	RT Var (+/- 0.06)	Remarks
44	172	22.713	2-Fluorobiphenyl	185.36	59.10	0.05	
45	162	23.054	2-Chloronaphthalene	0.04	< DL	0.09	
46	65	23.804	2-Nitroaniline	0.01	< DL	0.01	
47	163	25.001	Dimethylphthalate	0.19	< DL	0.13	
48	152	25.039	Acenaphthylene	0.01	< DL	0.05	
49	165	25.191	2,6-Dinitrotoluene	0.89	< DL	0.04	
50	164	25.852	Acenaphthene d10	111.89	40.00	0.02	
51	138	26.042	3-Nitroaniline	0.01	< DL	0.25	
52	154	26.061	Acenaphthene	0.09	< DL	0.07	
53	184	26.789	2,4-Dinitrophenol	0.00	< DL	26.79	
54	250	26.931	Pentachlorobenzene	0.00	< DL	26.93	
55	168	27.216	Dibenzofuran	0.05	< DL	0.04	
56	165	27.614	2,4-Dinitrotoluene	0.02	< DL	0.22	
57	143	27.734	1-Naphthylamine	0.00	< DL	27.73	
58	139	27.841	4-Nitrophenol	0.00	< DL	27.84	
59	232	28.069	2,3,4,6-Tetrachlorophenol	0.08	< DL	0.16	
60	143	28.202	2-Naphthylamine	0.00	< DL	28.20	
61	166	28.904	Fluorene	0.12	< DL	0.05	
62	149	28.980	Diethylphthalate	3.49	< DL	0.11	
63	204	29.094	4-Chorophenylphenyl ether	0.00	< DL	29.09	
64	138	29.315	4-Nitroaniline	0.01	< DL	0.18	
65	198	29.416	4,6-Dinitro-2-methylphenol	0.21	< DL	0.40	
66	169	29.626	N-Nitroso-di-n-phenylamine **	2.56	1.17	0.19	trace
67	77	29.682	1,2-Diphenylhydrazine/Azobenze	0.14	< DL	0.11	
68	330	29.854	2,4,6-Tribromophenol	63.99	125.41	0.04	
69	248	30.683	4-Bromophenylphenylether	0.00	< DL	30.68	
70	284	30.728	Hexachlorobenzene	0.00	< DL	30.73	
71	108	30.804	Phenacetin	0.01	< DL	0.08	
72	295	31.367	Pentachloronitrobenzene	0.00	< DL	31.37	
73	266	31.393	Pentachlorophenol	0.00	< DL	31.39	
74	169	31.431	4-Aminobiphenyl	0.08	< DL	0.06	
75	188	31.773	Phenanthrene d10	154.26	40.00	0.03	
76	178	31.831	Phenanthrene	2.14	< DL	0.03	
77	178	31.831	Anthracene	2.14	< DL	0.03	
78	149	33.313	Di-n-butylphthalate	17.24	2.68	0.03	trace
79	202	34.433	Fluoranthene	3.74	< DL	0.02	
80	184	34.775	Benzidine	2.76	3.07	0.44	trace
81	202	34.870	Pyrene	3.00	< DL	0.02	
82	244	35.213	Terphenyl d14	211.45	117.56	0.00	
83	149	36.126	Butylbenzylphthalate	0.69	< DL	0.02	
84	252	37.072	3,3-Dichlorobenzidine	0.00	< DL	37.07	
85	240	37.129	Chrysene d12	63.77	40.00	0.02	
86	149	37.148	Bis(2-ethylhexyl)phthalate	1.97	< DL	0.02	
87	228	37.170	Chrysene	1.61	< DL	0.08	
88	228	37.174	Benzo(a)anthracene	1.61	1.03	0.08	trace
89	149	38.419	Di-n-octylphthalate	0.13	< DL	0.08	
90	252	39.395	Benzo(b)fluoranthene	0.70	< DL	0.03	
91	252	39.460	Benzo(k)fluoranthene	0.70	< DL	0.09	
92	252	40.240	Benzo(a)pyrene	0.29	< DL	0.02	
93	264	40.392	Perylene d12	24.63	40.00	0.02	
94	268	41.279	3-Methylcholanthrene	0.00	< DL	41.28	
95	276	44.118	Indeno(1,2,3-cd)pyrene	0.06	< DL	0.01	
96	278	44.204	Dibenz(a,h)anthracene	0.00	< DL	44.20	
97	276	45.272	Benzo(g,h,i)perylene	0.03	< DL	0.01	

* Co-elutes with 3-Methylphenol

** Inseparable from Diphenylamine

2501012.D

Chemron Inc
QC Summary Report

Data File 2501012.D
Sample Desc. 33557 optech
Misc. Info. HP 5970II ex: 01/20/94 30g/1mL BNA

Date Analyzed: 24 Jan 94 10:01 pm
Method: 1118.M
Chemist: Vergel C.

IS No.	RT (min.)	Internal Standards	Amount (ug/ml)	Pass/Fail	Standard Area (x100000)	Sample Area (x100000)
1	11.72	1,4-Dichlorobenzene d4	40.00	Pass	59.35	56.62
2	17.25	Napthalene d8	40.00	Pass	206.23	199.61
3	25.83	Acenaphthene d10	40.00	Pass	118.82	111.89
4	31.75	Phenanthrene d10	40.00	Pass	164.61	154.26
5	37.11	Chrysene d12	40.00	Pass	81.21	63.77
6	40.37	Perylene d12	40.00	Pass	40.13	24.63

RT (min.)	Surrogates	Amount Spiked (ug/ml)	Pass/Fail	Amount Rec'd. (ug/ml)	% Surrogate Rec'y.
7.23	2-Fluorophenol	200.00	Pass	97.57	49
10.72	Phenol d5	200.00	Pass	100.87	50
14.14	Nitrobenzene d5	100.00	Pass	41.77	42
22.66	2-Fluorobiphenyl	100.00	Pass	59.10	59
29.82	2,4,6-Tribromophenol	200.00	Pass	125.41	63
35.21	Terphenyl d14	100.00	Pass	117.56	118

2501012.D

CHEMRON
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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Report Date: 02/03/94
Chemron's Job#: 3706

Date & Time Received:
01/20/94, 10:00

Date Sampled:
01/19/94

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample Matrix	Date Analyzed	TPH (PPM)
33562	1315-109 / Garland ANGS / Garland, Texas BG-002BH 7-8	Soil	01/21/94	< 10.
33563	1315-109 / Garland ANGS / Garland, Texas 01-003BH 1-3	Soil	01/21/94	< 10.
33564	1315-109 / Garland ANGS / Garland, Texas 01-003BH 6-8	Soil	01/21/94	< 10.
33565	1315-109 / Garland ANGS / Garland, Texas 01-006BH 2-3	Soil	01/21/94	< 10.
33566	1315-109 / Garland ANGS / Garland, Texas 01-006BH 7-8	Soil	01/21/94	< 10.
33567	1315-109 / Garland ANGS / Garland, Texas 01-004BH 1-2	Soil	01/21/94	< 10.
33568	1315-109 / Garland ANGS / Garland, Texas 01-004BH 7-8	Soil	01/21/94	< 10.
33569	1315-109 / Garland ANGS / Garland, Texas EB-1	Water	01/24/94	< .5
33570	1315-109 / Garland ANGS / Garland, Texas FB-1	Water	01/24/94	< .5

Approved By: R. Ellmann

Analytical Methods: TPH in Soil - 3540/418.1 or 3550/418.1, TPH in Water - 418.1

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Report Date: 02/02/94
Chemron's Job#: 3706

Date & Time Received:
01/20/94, 10:00

Date Sampled:
01/19/94

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample Matrix	Date Analyzed	TPH (PPM)
33553	1315-109 / Garland ANGS / Garland, Texas 01-007BH 2-3	Soil	01/21/94	< 10.
33554	1315-109 / Garland ANGS / Garland, Texas 01-007BH 7-8	Soil	01/24/94	< 10.
33555	1315-109 / Garland ANGS / Garland, Texas 01-008BH 2-3	Soil	01/24/94	20.
33556	1315-109 / Garland ANGS / Garland, Texas 01-008BH 7-8	Soil	01/21/94	< 10.
33557	1315-109 / Garland ANGS / Garland, Texas BG-001BH 1-2	Soil	01/21/94	< 10.
33558	1315-109 / Garland ANGS / Garland, Texas BG-001BH 4-5	Soil	01/24/94	< 10.
33559	1315-109 / Garland ANGS / Garland, Texas BG-001BH 7-8	Soil	01/21/94	< 10.
33560	1315-109 / Garland ANGS / Garland, Texas BG-002BH 1-2	Soil	01/21/94	< 10.
33561	1315-109 / Garland ANGS / Garland, Texas BG-002BH 4-5	Soil	01/21/94	< 10.

Approved By: N. Eldridge

Analytical Methods: TPH in Soil - 3540/418.1 or 3550/418.1, TPH in Water - 418.1

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Report Date: 01/24/94
Chemron's Job#: 3709

Date & Time Received:
01/21/94, 09:15

Date Sampled:
01/20/94

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample Matrix	Date Analyzed	TPH (PPM)
33579	1315-109 / Garland / Garland, Texas 01-005BH 1-2	Soil	01/24/94	< 10.
33580	1315-109 / Garland / Garland, Texas 01-005BH 6-8	Soil	01/24/94	< 10.
33581	1315-109 / Garland / Garland, Texas 01-009BH 4-5	Soil	01/24/94	< 10.
33582	1315-109 / Garland / Garland, Texas 01-009BH 9-10	Soil	01/24/94	< 10.
33583	1315-109 / Garland / Garland, Texas 01-010BH 3-4	Soil	01/24/94	< 10.
33584	1315-109 / Garland / Garland, Texas 01-010BH 9-10	Soil	01/24/94	< 10.
33585	1315-109 / Garland / Garland, Texas EB-2	Water	01/24/94	< .5
33586	1315-109 / Garland / Garland, Texas FB-2	Water	01/24/94	< .5
33587	1315-109 / Garland / Garland, Texas 01-011BH 2-3	Soil	01/24/94	< 10.
33588	1315-109 / Garland / Garland, Texas 01-011BH 10-12	Soil	01/24/94	< 10.

Approved By: R. Oldham

Analytical Methods: TPH in Soil - 3540/418.1 or 3550/418.1, TPH in Water - 418.1

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Report Date: 01/21/94
Chemron's Job#: 3706

Date & Time Received:
01/20/94, 10:00

Date Sampled:
01/18/94

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample Matrix	Date Analyzed	TPH (PPM)
33572	1315-109 / Garland ANGS / Garland, Texas 01-001BH 4.5-5.5	Soil	01/21/94	< 10.
33573	1315-109 / Garland ANGS / Garland, Texas 01-001BH 7-8	Soil	01/21/94	< 10.
33574	1315-109 / Garland ANGS / Garland, Texas 01-002BH 1-2	Soil	01/23/94	< 10.
33575	1315-109 / Garland ANGS / Garland, Texas 01-002BH 7-8	Soil	01/21/94	< 10.

Approved By: R. Oldham

Analytical Methods: TPH in Soil - 3540/418.1 or 3550/418.1, TPH in Water - 418.

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Date: 02/07/94
Client's Job #: 1315-109
COC #: 1679

The Results From the Quality Control Samples That Were Analyzed in the Sample Lot That Included Your Samples Are Summarized Below.

QUALITY CONTROL ANALYSIS REPORT

Analytical Parameter	Matrix	Analysis Date	Precision	Recovery
TPH	Soil	01/24/94	2%	103%
TPH	Soil	01/24/94	1%	104%
TPH	Soil	01/21/94	4%	108%
TPH	Soil	01/21/94	1%	109%
TPH	Soil	01/21/94	4%	113%
TPH	Water	01/24/94	-	83%

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33558
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 4-5

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.3	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	21.	MG/KG	01/28/94	7191
Total Copper	11.	MG/KG	01/31/94	6010
Total Lead	11.	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	16.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	40.	MG/KG	01/31/94	6010

Approved By: _____

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33557
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 1-2

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	15.	MG/KG	01/28/94	7191
Total Copper	11.	MG/KG	01/31/94	6010
Total Lead	8.9	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	10.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	33.	MG/KG	01/31/94	6010

Approved By: 

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33559
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-001BH 7-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	.5	MG/KG	01/31/94	6010
Total Cadmium	.15	MG/KG	02/01/94	7131
Total Chromium	7.7	MG/KG	01/28/94	7191
Total Copper	3.4	MG/KG	01/31/94	6010
Total Lead	3.3	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	5.5	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	17.	MG/KG	01/31/94	6010

Approved By: _____

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33560
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 1-2

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	.1	MG/KG	02/01/94	7131
Total Chromium	21.	MG/KG	01/28/94	7191
Total Copper	11.	MG/KG	01/31/94	6010
Total Lead	14.	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	15.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	40.	MG/KG	01/31/94	6010

Approved By: _____

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33561
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 4-5

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.3	MG/KG	01/31/94	6010
Total Cadmium	.1	MG/KG	02/01/94	7131
Total Chromium	18.	MG/KG	01/28/94	7191
Total Copper	7.4	MG/KG	01/31/94	6010
Total Lead	10.	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	12.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	33.	MG/KG	01/31/94	6010

Approved By: _____

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33562
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
BG-002BH 7-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	.8	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	15.	MG/KG	01/28/94	7191
Total Copper	9.0	MG/KG	01/31/94	6010
Total Lead	3.7	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	10.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	31.	MG/KG	01/31/94	6010

Approved By: _____

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/18/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33572
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-001BH 4.5-5.5

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	.1	MG/KG	02/01/94	7131
Total Chromium	8.8	MG/KG	01/28/94	7191
Total Copper	5.1	MG/KG	01/31/94	6010
Total Lead	1.9	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	8.6	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	.1	MG/KG	02/03/94	7841
Total Zinc	25.	MG/KG	01/31/94	6010

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/18/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33573
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-001BH 7-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	10.	MG/KG	01/28/94	7191
Total Copper	7.2	MG/KG	01/31/94	6010
Total Lead	4.5	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	12.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	.1	MG/KG	02/03/94	7841
Total Zinc	37.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/18/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33574
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-002BH 1-2

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	.1	MG/KG	02/01/94	7131
Total Chromium	20.	MG/KG	01/28/94	7191
Total Copper	13.	MG/KG	01/31/94	6010
Total Lead	12.	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	16.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	.2	MG/KG	02/03/94	7841
Total Zinc	41.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/18/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33575
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-002BH 7-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	6.2	MG/KG	01/28/94	7191
Total Copper	5.1	MG/KG	01/31/94	6010
Total Lead	1.6	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	9.0	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	.1	MG/KG	02/03/94	7841
Total Zinc	23.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33563
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-003BH 1-3

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.1	MG/KG	01/31/94	6010
Total Cadmium	<.05	MG/KG	02/01/94	7131
Total Chromium	12.	MG/KG	01/28/94	7191
Total Copper	7.7	MG/KG	01/31/94	6010
Total Lead	9.9	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	14.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	23.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33564
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-003BH 6-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	.8	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	8.4	MG/KG	01/28/94	7191
Total Copper	6.1	MG/KG	01/31/94	6010
Total Lead	7.5	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	13.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	19.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33567
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-004BH 1-2

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	18.	MG/KG	01/28/94	7191
Total Copper	10.	MG/KG	01/31/94	6010
Total Lead	14.	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	16.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	39.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33568
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-004BH 7-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	.9	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	13.	MG/KG	01/28/94	7191
Total Copper	6.7	MG/KG	01/31/94	6010
Total Lead	5.5	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	14.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	40.	MG/KG	01/31/94	6010

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lient: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Soil
Chemron ID #: 33579
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 1-2

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
otal Arsenic	<2.1	MG/KG	02/07/94	6010
tal Antimony	<1.1	MG/KG	01/31/94	6010
otal Beryllium	.8	MG/KG	01/31/94	6010
otal Cadmium	1.3	MG/KG	02/01/94	7131
tal Chromium	15.	MG/KG	01/28/94	7191
otal Copper	20.	MG/KG	01/31/94	6010
otal Lead	26.	MG/KG	01/24/94	7421
tal Mercury	<.1	MG/KG	01/21/94	7471
tal Nickel	16.	MG/KG	01/31/94	6010
otal Selenium	<.8	MG/KG	02/04/94	7740
tal Silver	.9	MG/KG	01/21/94	6010
tal Thallium	.1	MG/KG	02/03/94	7841
otal Zinc	51.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Soil
Chemron ID #: 33580
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
01-005BH 6-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	.1	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	5.7	MG/KG	01/28/94	7191
Total Copper	4.0	MG/KG	01/31/94	6010
Total Lead	4.1	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	6.9	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	22.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33565
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 2-3

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.2	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	15.	MG/KG	01/28/94	7191
Total Copper	11.	MG/KG	01/31/94	6010
Total Lead	13.	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	15.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	30.	MG/KG	01/31/94	6010

Approved By: _____

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33566
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-006BH 7-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	<.05	MG/KG	02/01/94	7131
Total Chromium	15.	MG/KG	01/28/94	7191
Total Copper	7.0	MG/KG	01/31/94	6010
Total Lead	4.1	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	12.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	39.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33553
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 2-3

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.0	MG/KG	01/31/94	6010
Total Cadmium	<.05	MG/KG	02/01/94	7131
Total Chromium	12.	MG/KG	01/28/94	7191
Total Copper	8.3	MG/KG	01/31/94	6010
Total Lead	8.4	MG/KG	01/24/94	7421
Total Mercury	< .1	MG/KG	01/21/94	7471
Total Nickel	11.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	26.	MG/KG	01/31/94	6010

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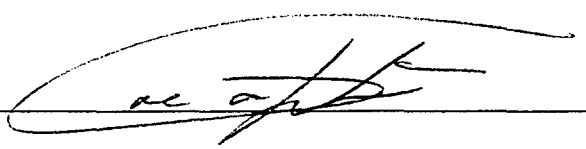
Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33554
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-007BH 7-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	<.1	MG/KG	01/31/94	6010
Total Cadmium	<.05	MG/KG	02/01/94	7131
Total Chromium	6.2	MG/KG	01/28/94	7191
Total Copper	5.1	MG/KG	01/31/94	6010
Total Lead	2.6	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	9.6	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	23.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33555
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-008BH 2-3

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.2	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	20.	MG/KG	01/28/94	7191
Total Copper	12.	MG/KG	01/31/94	6010
Total Lead	9.4	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	16.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	40.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Soil
Chemron ID #: 33556
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
01-008BH 7-8

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	.95	MG/KG	01/31/94	6010
Total Cadmium	<.05	MG/KG	02/01/94	7131
Total Chromium	14.	MG/KG	01/28/94	7191
Total Copper	23.	MG/KG	01/31/94	6010
Total Lead	7.9	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	11.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	36.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Soil
Chemron ID #: 33581
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
01-009BH 4-5

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.3	MG/KG	01/31/94	6010
Total Cadmium	.15	MG/KG	02/01/94	7131
Total Chromium	21.	MG/KG	01/28/94	7191
Total Copper	9.2	MG/KG	01/31/94	6010
Total Lead	15.	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	13.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	.55	MG/KG	01/21/94	6010
Total Thallium	.15	MG/KG	02/03/94	7841
Total Zinc	44.	MG/KG	01/31/94	6010

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Soil
Chemron ID #: 33582
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
01-009BH 9-10

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	.8	MG/KG	01/31/94	6010
Total Cadmium	.1	MG/KG	02/01/94	7131
Total Chromium	12.	MG/KG	01/28/94	7191
Total Copper	7.1	MG/KG	01/31/94	6010
Total Lead	4.4	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	7.7	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	.05	MG/KG	02/03/94	7841
Total Zinc	25.	MG/KG	01/31/94	6010

Approved By: _____

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Soil
Chemron ID #: 33583
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
01-010BH 3-4

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	.8	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	10.	MG/KG	01/28/94	7191
Total Copper	4.4	MG/KG	01/31/94	6010
Total Lead	2.2	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	7.3	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	22.	MG/KG	01/31/94	6010

Approved By: 

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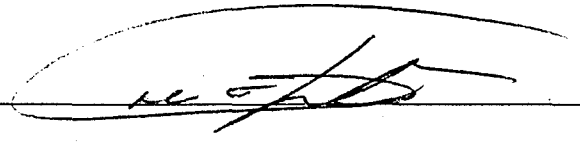
Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Soil
Chemron ID #: 33584
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
01-010BH 9-10

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.1	MG/KG	01/31/94	6010
Total Cadmium	.05	MG/KG	02/01/94	7131
Total Chromium	17.	MG/KG	01/28/94	7191
Total Copper	9.7	MG/KG	01/31/94	6010
Total Lead	6.2	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	9.4	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	29.	MG/KG	01/31/94	6010

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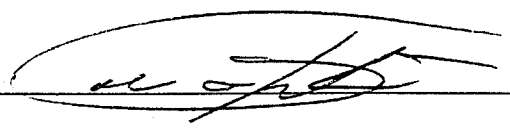
Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Soil
Chemron ID #: 33587
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 2-3

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
tal Arsenic	<2.1	MG/KG	02/07/94	6010
otal Antimony	<1.1	MG/KG	01/31/94	6010
otal Beryllium	1.0	MG/KG	01/31/94	6010
tal Cadmium	.1	MG/KG	02/01/94	7131
otal Chromium	14.	MG/KG	01/28/94	7191
otal Copper	9.0	MG/KG	01/31/94	6010
tal Lead	4.8	MG/KG	01/24/94	7421
tal Mercury	<.1	MG/KG	01/21/94	7471
otal Nickel	9.8	MG/KG	01/31/94	6010
tal Selenium	<.8	MG/KG	02/04/94	7740
tal Silver	<.15	MG/KG	01/21/94	6010
otal Thallium	.1	MG/KG	02/03/94	7841
tal Zinc	31.	MG/KG	01/31/94	6010

pproved By: 

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Soil
Chemron ID #: 33588
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
01-011BH 10-12

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<2.1	MG/KG	02/07/94	6010
Total Antimony	<1.1	MG/KG	01/31/94	6010
Total Beryllium	1.1	MG/KG	01/31/94	6010
Total Cadmium	.1	MG/KG	02/01/94	7131
Total Chromium	16.	MG/KG	01/28/94	7191
Total Copper	9.6	MG/KG	01/31/94	6010
Total Lead	9.5	MG/KG	01/24/94	7421
Total Mercury	<.1	MG/KG	01/21/94	7471
Total Nickel	11.	MG/KG	01/31/94	6010
Total Selenium	<.8	MG/KG	02/04/94	7740
Total Silver	<.15	MG/KG	01/21/94	6010
Total Thallium	<.05	MG/KG	02/03/94	7841
Total Zinc	30.	MG/KG	01/31/94	6010

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lient: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Water
Chemron ID #: 33569
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
EB-1

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
l Arsenic	<.002	MG/L	01/31/94	7060
l Antimony	<.023	MG/L	01/31/94	6010
l Beryllium	<.002	MG/L	01/31/94	6010
l Cadmium	<.0006	MG/L	02/01/94	7131
al Chromium	.008	MG/L	01/28/94	7191
l Copper	<.005	MG/L	01/31/94	6010
l Lead	.014	MG/L	01/24/94	7421
l Mercury	<.0002	MG/L	01/21/94	7470
al Nickel	<.008	MG/L	01/31/94	6010
l Selenium	.002	MG/L	02/04/94	7740
l Silver	<.003	MG/L	01/21/94	6010
al Thallium	<.001	MG/L	02/03/94	7841
l Zinc	.012	MG/L	01/31/94	6010

roved By: _____

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Water
Chemron ID #: 33585
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
EB-2

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<.002	MG/L	01/31/94	7060
Total Antimony	<.023	MG/L	01/31/94	6010
Total Beryllium	<.002	MG/L	01/31/94	6010
Total Cadmium	<.0006	MG/L	02/01/94	7131
Total Chromium	.002	MG/L	01/28/94	7191
Total Copper	.007	MG/L	01/31/94	6010
Total Lead	.019	MG/L	01/24/94	7421
Total Mercury	<.0002	MG/L	01/21/94	7470
Total Nickel	<.008	MG/L	01/31/94	6010
Total Selenium	.006	MG/L	02/04/94	7740
Total Silver	<.003	MG/L	01/21/94	6010
Total Thallium	<.001	MG/L	02/03/94	7841
Total Zinc	.022	MG/L	01/31/94	6010

Approved By: _____

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Date Sampled: 01/19/94
Date Received: 01/20/94
Sample Matrix: Water
Chemron ID #: 33570
Report Date: 02/18/94
Chemron's Job #: 3706

Sample Description:
1315-109 / Garland ANGS / Garland, Texas
FB-1

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
tal Arsenic	<.002	MG/L	01/31/94	7060
otal Antimony	<.023	MG/L	01/31/94	6010
otal Beryllium	<.002	MG/L	01/31/94	6010
tal Cadmium	<.0006	MG/L	02/01/94	7131
otal Chromium	.010	MG/L	01/28/94	7191
otal Copper	.013	MG/L	01/31/94	6010
tal Lead	<.002	MG/L	01/24/94	7421
tal Mercury	<.0002	MG/L	01/21/94	7470
otal Nickel	.052	MG/L	01/31/94	6010
tal Selenium	.008	MG/L	02/04/94	7740
tal Silver	<.003	MG/L	01/21/94	6010
otal Thallium	.003	MG/L	02/03/94	7841
otal Zinc	.032	MG/L	01/31/94	6010

Approved By: _____

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Date Sampled: 01/20/94
Date Received: 01/21/94
Sample Matrix: Water
Chemron ID #: 33586
Report Date: 02/18/94
Chemron's Job #: 3709

Sample Description:
1315-109 / Garland / Garland, Texas
FB-2

CHEMICAL ANALYSIS REPORT

Parameter	Value	Units	Date Analyzed	Analytical Method
Total Arsenic	<.002	MG/L	00/00/00	7060
Total Antimony	<.023	MG/L	01/31/94	6010
Total Beryllium	<.002	MG/L	01/31/94	6010
Total Cadmium	<.0006	MG/L	02/01/94	7131
Total Chromium	.018	MG/L	01/28/94	7191
Total Copper	<.005	MG/L	01/31/94	6010
Total Lead	.019	MG/L	01/24/94	7421
Total Mercury	<.0002	MG/L	01/21/94	7470
Total Nickel	.016	MG/L	01/31/94	6010
Total Selenium	<.002	MG/L	02/04/94	7740
Total Silver	<.003	MG/L	01/21/94	6010
Total Thallium	<.001	MG/L	02/03/94	7841
Total Zinc	.018	MG/L	01/31/94	6010

Approved By: _____

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10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

February 14,1994

Mr. Mark Escobar
Operational Technologies Corporation
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

Dear Mark:

The data package containing results of the analyses obtained from the Garland ANGS project samples was delivered to Optech last week. The arsenic data reported for the soil samples were obtained using Method 6010. For the soils, arsenic was not found to be above the detection limit of 2.1 MG/KG.

The analytical requirements of the project specified that arsenic be measured by Method 7060. Chemron initially analyzed these samples for arsenic using Method 7060 employing D_2 correction. The results from these analyses are summarized in the enclosed report. Although the QC data for these analyses meet the requirements for acceptability, Chemron personnel suspected that the elevated values could be due to an interference such as a high aluminum concentration. This prompted Chemron to conduct additional arsenic analyses by Method 6010.

As a further check on the arsenic concentration, Chemron submitted three samples to another laboratory for analyses by Method 7060 using Zeeman correction. It is known that Zeeman correction will eliminate aluminum interference during the arsenic analysis. These results confirm that the data obtained by Method 6010 are correct. It is our recommendation that Optech use the arsenic data obtained from Method 6010 for the soil samples. It is also recommended that the data obtained from the analysis of the water samples by Method 7060 be utilized.

Please feel free to contact me if you have any questions concerning this matter. Thank you.

Sincerely,

Joe A. Lambert
Chemron Incorporated

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Report Date: 02/14/94
Chemron's Job #: 3706

Date & Time Received:
01/20/94, 10:00

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample Matrix	Date Analyzed	Total Arsenic MG/KG
33553	1315-109 / Garland ANGS / Garland, Texas 01-007BH 2-3	Soil	01/31/94	24.
33554	1315-109 / Garland ANGS / Garland, Texas 01-007BH 7-8	Soil	01/31/94	13.
33555	1315-109 / Garland ANGS / Garland, Texas 01-008BH 2-3	Soil	01/31/94	35.
33556	1315-109 / Garland ANGS / Garland, Texas 01-008BH 7-8	Soil	01/31/94	24.
33557	1315-109 / Garland ANGS / Garland, Texas BG-001BH 1-2	Soil	01/31/94	22.
33558	1315-109 / Garland ANGS / Garland, Texas BG-001BH 4-5	Soil	01/31/94	25.
33559	1315-109 / Garland ANGS / Garland, Texas BG-001BH 7-8	Soil	01/31/94	13.
33560	1315-109 / Garland ANGS / Garland, Texas BG-002BH 1-2	Soil	01/31/94	19.
33561	1315-109 / Garland ANGS / Garland, Texas BG-002BH 4-5	Soil	01/31/94	24.
33562	1315-109 / Garland ANGS / Garland, Texas BG-002BH 7-8	Soil	01/31/94	35.

Approved By: _____

Analytical Methods: 7060

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1678/1683
Report Date: 02/14/94
Chemron's Job #: 3706

Date & Time Received:
01/20/94, 10:00

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample Matrix	Date Analyzed	Total Arsenic MG/KG
33563	1315-109 / Garland ANGS / Garland, Texas 01-003BH 1-3	Soil	01/31/94	24.
33564	1315-109 / Garland ANGS / Garland, Texas 01-003BH 6-8	Soil	01/31/94	27.
33565	1315-109 / Garland ANGS / Garland, Texas 01-006BH 2-3	Soil	01/31/94	19.
33566	1315-109 / Garland ANGS / Garland, Texas 01-006BH 7-8	Soil	01/31/94	40.
33567	1315-109 / Garland ANGS / Garland, Texas 01-004BH 1-2	Soil	01/31/94	33.
33568	1315-109 / Garland ANGS / Garland, Texas 01-004BH 7-8	Soil	01/31/94	38.
33572	1315-109 / Garland ANGS / Garland, Texas 01-001BH 4.5-5.5	Soil	01/31/94	22.
33573	1315-109 / Garland ANGS / Garland, Texas 01-001BH 7-8	Soil	01/31/94	22.
33574	1315-109 / Garland ANGS / Garland, Texas 01-002BH 1-2	Soil	01/31/94	27.
33575	1315-109 / Garland ANGS / Garland, Texas 01-002BH 7-8	Soil	01/31/94	13.

Approved By: _____

Analytical Methods: 7060

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Client's Job #: 1315-109
COC #: 1679
Report Date: 02/14/94
Chemron's Job #: 3709

Date & Time Received:
01/21/94, 09:15

CHEMICAL ANALYSIS REPORT

Chemron #	Sample Description	Sample Matrix	Date Analyzed	Total Arsenic MG/KG
33579	1315-109 / Garland / Garland, Texas 01-005BH 1-2	Soil	01/31/94	16.
33580	1315-109 / Garland / Garland, Texas 01-005BH 6-8	Soil	01/31/94	6.5
33581	1315-109 / Garland / Garland, Texas 01-009BH 4-5	Soil	01/31/94	22.
33582	1315-109 / Garland / Garland, Texas 01-009BH 9-10	Soil	01/31/94	24.
33583	1315-109 / Garland / Garland, Texas 01-010BH 3-4	Soil	01/31/94	23.
33584	1315-109 / Garland / Garland, Texas 01-010BH 9-10	Soil	01/31/94	29.
33587	1315-109 / Garland / Garland, Texas 01-011BH 2-3	Soil	01/31/94	54.
33588	1315-109 / Garland / Garland, Texas 01-011BH 10-12	Soil	01/31/94	26.

Approved By: _____

Analytical Methods: 7060

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Client: Operational Technologies Corporation
4100 N W Loop 410, Ste 230
San Antonio, TX 78229

Date: 02/14/94
Client's Job #: 1315-109
COC #: 1678/1683

The Results From the Quality Control Samples That Were Analyzed in the Sample Lot That Included Your Samples Are Summarized Below.

QUALITY CONTROL ANALYSIS REPORT

Analytical Parameter	Matrix	Analysis Date	Precision	Recovery
Arsenic	Soil	01/31/94	12%	104%
Arsenic	Soil	01/31/94	3%	78%
Arsenic	Soil	01/31/94	11%	90%
Arsenic	Soil	01/31/94	8%	96%

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(210) 340-8121 (800) 572-6955

Project Manager: PHYLLIS PRIMROSE	Phone #: (210) 731-0800
Address: 4100 NW Loop 410, Ste 230	FAX #: (210) 731-0008
Project Number: 1315-109	Project Name: Garland ANGS
Project Location: GARLAND, TEXAS	Sampler Signature:

CHAIN OF CUSTODY RECORD

ID # LAB USE ONLY	Sampling Date	Sampling Time	Matrix [s,w,f]	Composite	Grab	Boring	FIELD ID #	FIELD DESCRIPTION	No. of Containers	ANALYSIS: BTEX	TRPH	VOC	SVOC	Total Metals	TPH	REMARKS (Preservation, Size/Amount, Etc.)
33571	11/18/94	0645	W				TB-1 1	TB-1	1			✓				HCl 1-VOA 33571
33572	11/18/94	1330	S			X	01-001BH 2	01-001BH 4.5-5.5	2			✓	✓	✓	✓	33572
33573	11/18/94	1340	S			X	3	01-001BH 7-8	2			✓	✓	✓	✓	33573
33574	11/18/94	1415	S			X	4	01-002BH 1-2	2			✓	✓	✓	✓	33574
33575	11/18/94	1445	S			X	5	01-002BH 7-8	2			✓	✓	✓	✓	33575

Relinquished by: [Signature]	Date	Time	Received by: [Signature]
	11/18/94	1700	E.K. Hallert 11/20/94 10:00
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received for Laboratory by: Signature

Remarks: INTACT

	Yes	No
Headspace	✓	✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. TB-1 AIR BUBBLE

If No, Explain _____

If No, Temp. _____

Type of Container _____

Additional comments:

Job ID= 2706

COC #: 1678

1 of 2

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10526 Gulfdale • San Antonio, Texas 78216
(210) 340-8121 (800) 572-6955

Project Manager: Phyllis Primrose	Phone #: (210) 731-0000
Address: 4100 NW Loop 410	FAX #: (210) 731-0008
Project Number: 1315-109	Project Name: Garland ANGS
Project Location: Garland, Texas	Sampler Signature:

CHAIN OF CUSTODY RECORD

ID # LAB USE ONLY	Sampling Date	Sampling Time	Matrix [s,w,f]	Composite	Grab	Boring	FIELD ID #	FIELD DESCRIPTION	No. of Containers	ANALYSIS: BTEX	TRPH	VOC 8240 w/BTEX	SVOCS 8270	Priority Pollutant Metals 6010 *	TPH 418.1		REMARKS (Preservation, Size/Amount, Etc.)
	1/19/94	0750	W				1	TB-1 (**)	1			✓					33552
	1/19/94	0900	S			X	2	01-007BH 2-3 (***)	2			✓	✓	✓	✓		33553
	1/19/94	0920	S			X	3	01-007BH 7-8 (***)	2			✓	✓	✓	✓		33554
	1/19/94	1030	S			X	4	01-008BH 2-3	2			✓	✓	✓	✓		33555
	1/19/94	1050	S			X	5	01-008BH 7-8	2			✓	✓	✓	✓		33556
	1/19/94	1310	S			X	6	BG-001BH 1-2	2			✓	✓	✓	✓		33557
	1/19/94	1315	S			X	7	BG-001BH 4-5	2			✓	✓	✓	✓		33558
	1/19/94	1325	S			X	8	BG-001BH 7-8	2			✓	✓	✓	✓		33559
	1/19/94	1355	S			X	9	BG-002BH 1-2	2			✓	✓	✓	✓		33560
	1/19/94	1355	S			X	10	BG-002BH 4-5	2			✓	✓	✓	✓		33561

Relinquished by: [Signature]	Date	Time	Received by: [Signature]
	11/19/94	1850	E.K. Hellet 10:00 1/20/94
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature] (***) One sample reads 6-8-5L	Date	Time	Received by: [Signature]
Relinquished by: [Signature] (****) Sample containers read 3-5L	Date	Time	Received for Laboratory by: Signature

Remarks: INTACT

	Yes	No
Headspace	✓	✓
Properly Sealed	✓	
Chilled to 40°F	✓	

VOA HAS AIR BUBBLE *

If Yes, Amt. _____
If No, Explain _____
If No, Temp. _____

Type of Container _____

Additional comments: * Arsenic - 7060, Cadmium 7131 Chromium 7196, lead 7420, mercury 7470, Selenium 7740 Thallium 7841. See Page 6-11

(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)

* Aqueous samples in containers read [illegible] for [illegible].

2 of 2

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216
(210) 340-8121 (800) 572-6955

Project Manager: PHYLLIS PRIMROSE	Phone #: (210) 731-0000
Address: 4100 NW LOOP 410 SATX	FAX #: (210) 731-0008
Project Number: 1315-109	Project Name: GARLAND ANGS
Project Location: GARLAND TX	Sampler Signature:

CHAIN OF CUSTODY RECORD

ID # LAB USE ONLY	Sampling Date	Sampling Time	Matrix [s,w,f]	Composite	Grab	Boring	FIELD ID #	FIELD DESCRIPTION	No. of Containers	ANALYSIS: BTEX	TRPH	VOC (8240)	SVOC (8270)	Metals *	TPH (418.1)	REMARKS (Preservation, Size/Amount, Etc.)
335 62	11/9/94	1405	S			X	11	BG-002BH 7-8	2			✓	✓	✓	✓		335 62
335 63	11/11/94	1515	S			X	12	BI-003BH 1-3	2			✓	✓	✓	✓		335 63
335 64	11/9/94	1520	S			X	13	01-003BH 6-8	2			✓	✓	✓	✓		335 64
335 65	11/9/94	1600	S			X	14	01-006BH 2-3	2			✓	✓	✓	✓		335 65
335 66	11/9/94	1600	S			X	15	01-006BH 7-8	2			✓	✓	✓	✓		335 66
335 67	11/9/94	1650	S			X	16	01-004BH 1-2	2			✓	✓	✓	✓		335 67
335 68	11/9/94	1700	S			✓	17	01-004BH 7-8	2			✓	✓	✓	✓		335 68
335 69	11/9/94	1720	W				18	EB-1	5	33569		✓	✓	✓	✓		[illegible]
335 X 70	11/9/94	1740	W				19	FB-1	5			✓	✓	✓	✓		" 335 70

Relinquished by: [Signature]	Date	Time	Received by: [Signature]
	11/9/94	1850	E.K. Hallett 11/24/94 1000
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature] (Only 4 bottles arrived 2-40 mls 1 amber 0, 1 plastic 0)	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received for Laboratory by: Signature

Remarks: IMPACT

	Yes	No
Headspace		
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt: _____
If No, Explain _____
If No, Temp. _____

Type of Container _____

Additional comments: * Priority Pollutant Metals.

COC #: 1679 1 of 2

Job ID = 3709

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(210) 340-8121 (800) 572-6955

Project Manager: Phyllis Primrose	Phone #: (210) 731-0000
Address: 4100 NW Loop 410 SA, TX	FAX #: (210) 731-0088
Project Number: 1315-109	Project Name: GARLAND
Project Location: GARLAND, TX	Sampler Signature:

CHAIN OF CUSTODY RECORD

ID # LAB USE ONLY	Sampling Date	Sampling Time	Matrix [s,w,f]	Composite	Grab	Boring	FIELD ID #	FIELD DESCRIPTION	No. of Containers	ANALYSIS: MS/DS BTEX	TRPH	VOC 8240	SVOC	Metals *	TPH 418.1		REMARKS (Preservation, Size/Amount, Etc.)	
33579	11/20/94	0845	S			X	1	01-005BH 1-2	2			✓	✓	✓	✓			*
33580	11/20/94	0900	S			X	2	01-005BH 6-8	4	✓		✓	✓	✓	✓		MS/DS	*
33581	11/20/94	1015	S			X	3	01-009BH 4-5	2			✓	✓	✓	✓			*
33582	11/20/94	1030	S			X	4	01-009BH 9-10	2			✓	✓	✓	✓			*
33583	11/20/94	1115	S			X	5	01-010BH 3-4	2			✓	✓	✓	✓			*
33584	11/20/94	1145	S			X	6	01-010BH 9-10	2			✓	✓	✓	✓			*
33585	11/20/94	1215	SW			X	7	EB-2	5			✓	✓	✓	✓		2-VOA, 3 Liters	
33586	11/20/94	1230	W				8	FB-2	5			✓	✓	✓	✓		2-VOA, 3Liters	
33587	11/20/94	1230	S			X	9	01-011BH 2-3	2			✓	✓	✓	✓			*
33588	11/20/94	1300	S			X	10	01-011BH ~~8-10~~ 10-12	3	✓		✓	✓	✓	✓		MS/DS	*

	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	11/20/94	1800	EK Hallet 11/21/94 0915
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received for Laboratory by: Signature

Remarks: INTACT

	Yes	No	
Headspace	✓		If Yes, Amt. ONE VOA HAS AIR BUBBLE FB-2
Properly Sealed	✓		If No, Explain
Chilled to 40°F	✓		If No, Temp.

Type of Container

Additional comments: * Priority Pollutant

2 of 2

CHEMRON
INCORPORATED

10526 Gulfdale • San Antonio, Texas 78216
(210) 340-8121 (800) 572-6955

Project Manager: Phyllis Primrose	Phone #: (210) 731-0000
Address: 4100 NW Loop 410 SA TX	FAX #: 210-731-0008
Project Number: 1315-109	Project Name: GARLAND ANGS
Project Location: GARLAND, TX	Sampler Signature:

CHAIN OF CUSTODY RECORD

5240 X

ID # LAB USE ONLY	Sampling Date	Sampling Time	Matrix [s,w,f]	Composite	Grab	Boring	FIELD ID #	FIELD DESCRIPTION	No. of Containers	ANALYSIS BTEX	ANALYSIS TRPH	ANALYSIS VOC					REMARKS (Preservation, Size/Amount, Etc.)
33589	1/20/94	0700	W				11	TB-3	1			✓					

Relinquished by: [Signature]	Date	Time	Received by: [Signature]
	1/20/94	1800	E.K. Hulbert 1/21/94 0915
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received by: [Signature]
Relinquished by: [Signature]	Date	Time	Received for Laboratory by: Signature

Remarks: INTACT

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp. _____

Type of Container _____

Additional comments:

APPENDIX D

HRS DATA PACKAGE

PRELIMINARY ASSESSMENT (PA) SITE INSPECTION (SI)
DATA REQUIREMENTS FOR FEDERAL FACILITY DOCKET SITES

254th CCGP and 221st CCSQ, Garland ANGS, Garland, Texas

1. **Supply copies of all sampling data, on-site and off-site, including location map, detection limits (see definitions below), raw data sheets, QA/QC documents, date(s) sampled, analytical method(s) used, well or boring logs, and sampling technique(s).**

   The following information can be found in the listed sections of the report: sampling data: Appendix C; location map: Figure 2.1; detection limits: Section 5.0; raw data sheets: Appendix C; QA/QC: Section 4.4.2.2, dates sampled: Appendices C and E; analytical method(s) used: Section 5.0; well or boring logs: Appendix B; and sampling techniques: Section 4.0.

2. **Locate and identify on a map all known or suspected sources (see definition below). Supply all information about source(s) such as: dates of operation, use, or spillage; amounts of material deposited, stored, or spilled; dimensions of source(s); known or suspected hazardous substances (see definition below), etc.**

   This information can be found in Section 4.0 of the report.

3. **Provide a description of all aquifers beneath the site, including description of overlying materials, depth first encountered, thickness, and composition.**

   This information can be found in Section 3.5 of the report.

4. **For each source, choose one description from Table 1 that describes the groundwater contaminant. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

   No evidence of hazardous substance migration from source area, liner, and:
   - (a) None of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner.

5. **Provide the location of all drinking water wells in all aquifers beneath the site in a 4-mile radius from the site (property boundary) by HRS distance ring and locate the wells within a one-mile radius on a 7.5-minute topographic map. Provide information on depth of well(s), screening interval(s), depth of aquifer(s) encountered, population served for multiple wells (i.e., municipal system), provide the number of wells, location of all wells (regardless of 4-mile limit), average annual pumpage of each well (regardless of 4-mile limit), and total population served by system. Include information on all standby wells.**

The City of Garland formerly had a public supply well approximately 1.5 miles from the Station. However, that well was taken out of service, plugged, and abandoned several years ago. Garland no longer uses groundwater resources, but relies on surface-water supplies. (Source: See Section 3.5 of the report)

6. **Provide information and location (on 7.5-minute topographic map) of wells within 4 miles that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.**

Garland does not use private water wells for these purposes; they get their water from the North Texas Water District. (Source: Texas Natural Resource Conservation Committee)

7. **Provide average number of persons per residence for county (or counties) that site is located in per the U.S. Census Bureau.**

The average number of persons per residence for Dallas County is 2.25 (Source: Texas State Library in Austin).

8. **Identify and locate all surface water bodies within two miles of site, marking off the drainage routed (shown on 7.5-minute topographic map) from each source to applicable surface water bodies. Provide the average annual cubic feet per second flow for each surface water body within 15 miles downriver or radius from the point of probable entry into surface water. For lakes, provide information on inflow and outflow.**

The surface water bodies within two miles of the site is Duck Creek. See Figure A for drainage route. The average daily cubic feet per second flow for this creek is 15,700. The only other surface bodies of water within that area are two tributaries which are classified as 2C4 and 2C3 (these are intermittent).Additional information can be found in Section 3.3.2 of the report. (Source: Garland Power and Light, 1991)

9. **For each source, choose one description from Table 2 that describes the surface water containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

No evidence of hazardous substance migration from source areas and:

(a) Neither of the following present: (1) maintained engineer cover, or (2) functioning and maintained run-on control system and runoff management system.

10. **Provide the number of acres in each drainage basin.**

The total acreage for Upper Duck Creek is 20,359.31. The total acreage for Lower Duck Creek is 7,151. The site is located between the two. (Source: Garland Power and Light)

11. **From Table 3, choose the predominant soil group (surface soil) which comprises the largest total area within each drainage area.**

The predominant soil group for the area is fine-textured soils with very low infiltration rates (mostly clays). (Source: Section 3.4 of the report)

12. **Provide the two-year, 24-hour rainfall.**

The two-year, 24-hour rainfall for this area is approximately 4.1". (Source: National Climate Center, published 1961)

13. **From Table 4, choose the floodplain category of each source (supply FEMA floodplain map) and determine if each source meets the criteria from Table 5 (engineer's certification).**

The site does not fall under any of the floodplain categories. (Source: Planning and Zoning)

14. **Provide the location of all drinking water intakes within 15 downstream miles (rivers) or 15-mile radius (lakes, bays, etc.). Provide information on population served. For multiple intakes (i.e., municipal system), provide information on the number of intakes, location of all intakes (regardless of 15-mile limit), and total population served by system. Include information on all standby intakes.**

This question does not apply since Garland uses water from Lake Ray Hubbard. (Source: Water Utilities)

15. **Provide information and location of intakes within 15 miles downriver (radius in lake or bay) that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.**

This question also does not apply. (Source: Water Utilities)

16. **Provide any surface water body 15 miles downriver (radius in lakes or bay) used for drinking water.**

This question does not apply since the water 15 miles downriver is not used for drinking purposes. (Source: Water Utilities)

17. **Provide the average human food chain production (pounds per year) for each surface water body 15 miles downriver or 15-mile radius in lake.**

This information is not available for this area. (Source: Garland Power and Light)

18. **Within a 4-mile radius from the site and 15 miles downriver, or radius in lake, identify all sensitive environments that exist. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.), multiple sensitive environments within a sensitive environment.**

There are no sensitive environments within a 4-mile radius of the site.

19. **What is the linear frontage of all wetlands 15 miles downriver or 15-mile radius in lake?**

The approximate linear frontage of all wetlands 15 miles downriver is 8.6 miles. (Source: Wetland Map from U.S. Fish & Wildlife)

20. **Provide the location and number of persons residing, working, attending school, or day care within 200 feet. This includes both the Air and Army Guard.**

The normal working population is 34 whereas the population during Unit Training Assembly (UTA), which meets one weekend per month, is 225. (Source: Section 2.0 of the report)

21. **Identify all terrestrial sensitive environments that exist on-site. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.) and locate each on a 7.5-minute topographic map. Note that there could be multiple sensitive environments within a sensitive environment.**

There are no sensitive environments that exist on-site.

22. **For each source, choose one description from Table 8 that describes the accessibility to a human population. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

The best description for accessibility to a human population is: Physically inaccessible to public, with no evidence of public recreation use.

23. **Provide the total number of people in following distance rings from source(s)?**

- **0 - 1/4 mile**
  651 persons
- **1/4 - 1/2 mile**
  2,722 persons
- **1/2 - 1 mile**
  11,531 persons
- **1 - 2 miles**
  47,260 persons
- **2 - 3 miles**
  105,273 persons
- **3 - 4 miles**
  177,370 persons

Use 1990 Census data and/or actual house counts. Document how calculated.

Source: 1990 Census (block group level population aggregates)
Prepared by: GEOQUEST Information Technologies, Inc.

24. **For each source, choose one description from Table 9 that describes the gaseous containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]), as to why the source meets that description and not any other in the Table. From Table 10, choose the appropriate description of each source type. For each source, choose one description from Table 11 that describes that particulate containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

The following descriptions apply: All situations except those specifically listed below (Tables 9 & 11), and for Table 10 is other types of sources, not elsewhere specified (see Section 2.0 of the report for further information on source description).

25. **Provide the location and area (in acres) of all wetlands within 4 miles of the site.**

The approximate area of all wetlands within a 4-mile radius from the site is 199 acres.
(Source: Wetlands Map from U.S. Fish & Wildlife)

26. **Contact EPA Regional Office immediately if any radionuclides are present or suspected at site and supply all radiological information known to date.**

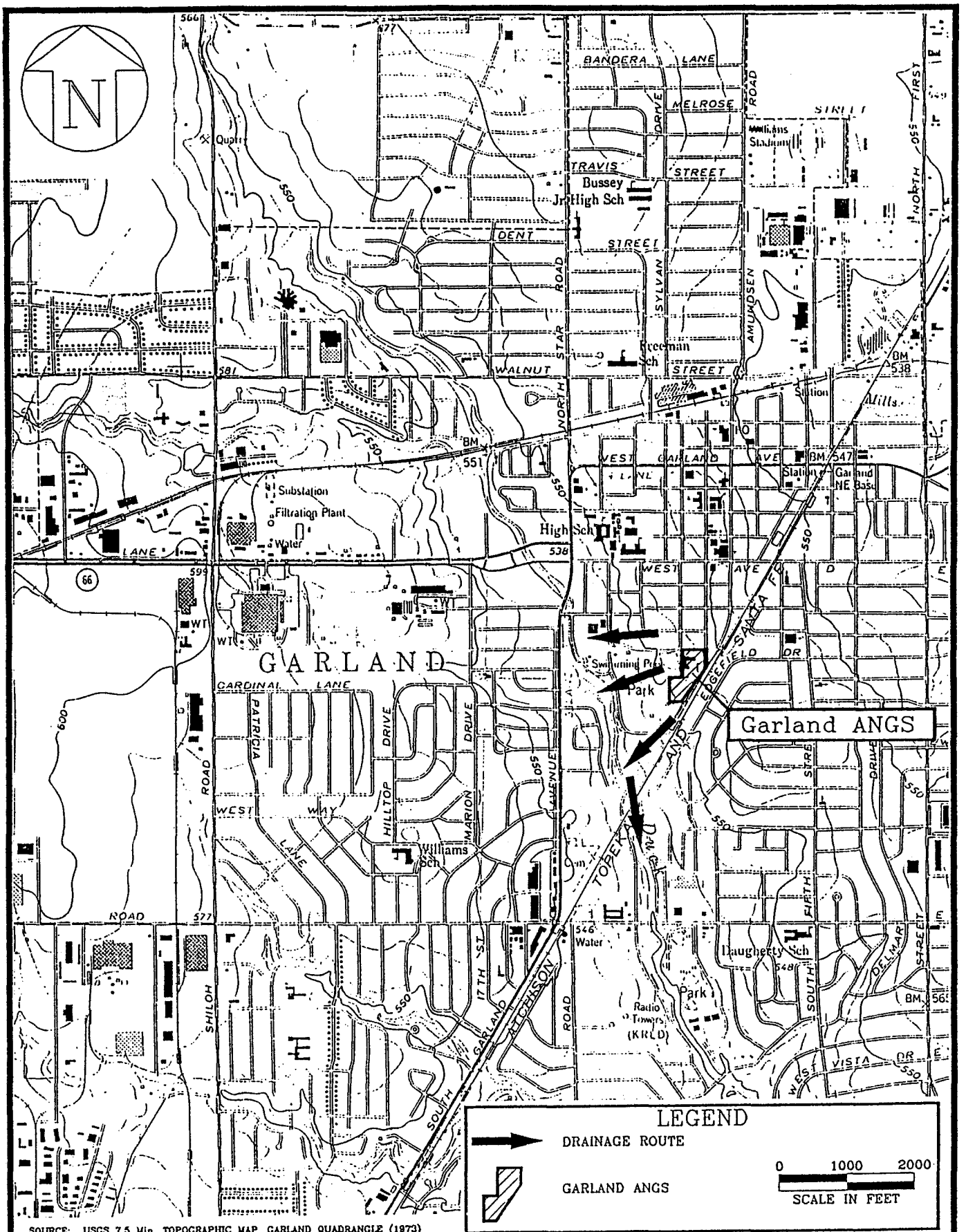
No present radionuclides are present or suspected at the site.

27. **For all of the above information, use primary data source and supply two copies or specify where copies may be obtained.**

28. **Provide any removals or remedial actions taken place at site.**

There were 3 USTs removed (2 gas and 1 diesel).

29. **If information relevant to a question already has been provided to the EPA, your answer may precisely cite the previous submittal by title, date, page, and paragraph number rather than resubmitting the information. To assist in your efforts, also enclosed is a copy of EPA's draft Preliminary Assessment Guidance.**



SOURCE: USGS 7.5 Min. TOPOGRAPHIC MAP, GARLAND QUADRANGLE (1973)

FIGURE A

WTRDRAIN

WATER DRAINAGE MAP

254th Combat Communications Group and
221st Combat Communications Squadron
Garland, Texas

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

MARCH 1994

Table 1

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No liner.

No evidence of hazardous substance migration from source area, a liner, and:

(a) None of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner.

(b) Any one of the three items in (a) present.

(c) Any two of the items in (a) present.

(d) All three items in (a) present plus a functioning groundwater monitoring system.

(e) All items in (d) present plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, functioning groundwater monitoring system, and:

(f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.

(g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquid or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

No liner.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained.

No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

(a) Liner.

(b) Liner with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.

(c) Double liner with functioning leachate collection and removal system between liners, and functioning groundwater monitoring system.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning, maintained, run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

(a) Functioning and maintained run-on control and runoff management system.

(b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.

(c) Land treatment area maintained in compliance with 40 CFR 264.280.

Containers

All containers buried.
Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).
No liner (or no essentially impervious base) under container area.
No diking (or no similar structure) surrounding container area.
Diking surrounding container area unsound or not regularly inspected and maintained.
No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

(a) Liner (or essentially impervious base) under container area.
(b) Essentially impervious base under container area with liquids collection and removal system.
(c) Containment system includes essentially impervious base, liquids collection system, sufficient contain 10 percent of volume of all containers, and functioning and maintained run-on control; plus functioning groundwater monitoring system, and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
(d) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, single liner under container area with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
(e) Same as (d) except: double liner under container area with functioning leachate collection and removal system between liners.

Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained runoff control present.
No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquid or solidification of remaining wastes and waste residues).

Tank

Belowground tank.
Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).
Tank and ancillary equipment not provided with secondary containment, (e.g., liner under tank area, vault system, double wall).
No diking (or no similar structure) surrounding tank and ancillary equipment
Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.
No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

(a) Tank and ancillary equipment provided with secondary containment.
(b) Tank and ancillary equipment provided with secondary containment with leak detection and collection system.
(c) Tank and ancillary equipment provided with secondary containment system that detects and collects spilled or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in timely manner, at least weekly inspection of tank and secondary containment system, all leaking or unfit-for-use tank systems promptly responded to, and functioning groundwater monitoring system.
(d) Containment system has sufficient capacity to hold volume of all tanks within tank containment area and to provide adequate freeboard, single liner under that containment area with functioning

leachate collection and removal system below liner, and functioning groundwater monitoring system.

(e) Same as (d) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

Table 2

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No evidence of hazardous substance migration from source areas and:

(a) Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.

(b) Any one of the two items in (a) present.

(c) Any two of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system, or (3) liner with functioning leachate collection and removal system immediately above liner.

(d) All items in (c) present.

(e) All items in (c) present, plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, and:

(f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.

(g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquids or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained.

No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

(a) No liner.

(b) Liner.

(c) Liner with functioning leachate collection and removal system below liner.

(d) Double liner with functioning leachate collection and removal system between liners.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning and maintained run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

(a) Functioning and maintained and maintained run-on control and runoff management system.

(b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.

(c) Land treatment area maintained in compliance with 40 CFR 264.280.

Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area and container area surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

(a) Essentially impervious base under container area with liquids collection and removal system.

(b) Containment system includes essentially impervious base, liquids collection system, sufficient capacity to contain 10 percent of volume of all containers, and functioning and maintained run-on control; and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.

(c) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, and single liner under container area with functioning leachate collection and removal system below liner.

(d) Same as (c) except: double liner under container area with functioning leachate collection and removal system between liners. Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained run-on control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

No diking (or no similar structure) surrounding tank and ancillary equipment.

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area and tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

(a) Tank and ancillary equipment provided with secondary containment (e.g., liner under tank area, vault system, double wall) with leak detection and collection system.

(b) Tank and ancillary equipment provided with secondary containment system that detects and collects spiked or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in a timely manner, at least

weekly inspection of tank and secondary containment system, and all leaking or unfit-for-use tank systems promptly responded to.

(c) Containment system has sufficient capacity to hold total volume of all tanks within the tank containment area and to provide adequate freeboard, and single liner under tank containment area with functioning leachate collection and removal system below liner.

(d) Same as (c) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

Table 3
Surface Soil Description

Coarse-textured soils with high infiltration rates (for example, sands, loamy sands).
Medium-textured soils with moderate infiltration rates (for example, sandy loams, loams).
Moderately fine-textured soils with low infiltration rates (for example, silty loams, silts, sandy clay loams).
Fine-textured soils with very low infiltration rates (for example, clays, sandy clays, silty clay loams, clay loams, silty clays); or impermeable surfaces (for example, pavement).

Table 4
Floodplain Categories

Source floods annually.
Source in 10-year floodplain.
Source in 100-year floodplain.
Source in 500-year floodplain.
None of the above.

Table 5
Flood Containment

Documentation that containment at the source is designed, constructed, operated, and maintained to prevent a washout of hazardous substances by the flood being evaluated (see floodplain category).

Table 6
Sensitive Environments

Critical habitat[a] for Federal designated endangered or threatened species.
Marine Sanctuary.
National Park.
Designated Federal Wilderness Area.
Areas identified under Coastal Zone Management Act[b].
Sensitive areas identified under National Estuary Program[c] or Near Coastal Waters Program[d].
Critical areas identified under the Clean Lakes Program[e].
National Monument[f].
National Seashore Recreational Area.
National Lakeshore Recreational Area.
Habitat known to be used by Federal designated or proposed endangered or threatened species.
National Preserve.

National or State Wildlife Refuge.
Unit of Coastal Barrier Resources System.
Coastal Barrier (undeveloped).
Federal land designated for protection of natural ecosystems.
Administratively Proposed Federal Wilderness Area.
Spawning areas critical[g] for the maintenance of fish/shellfish species within river, lake, or coastal tidal waters.
Migratory pathways and feeding areas critical for maintenance of anadromous fish species within river reaches or areas in lakes or coastal tidal waters in which the fish spend extended periods of time.
Terrestrial areas utilized for breeding by large or dense aggregations of animals[h].
National river reach designated as Recreational.
Habitat known to be used by State designated endangered or threatened species.
Habitat known to be used by species under review as to its Federal endangered or threatened status.
Coastal Barrier (partially developed).
Federal designated Scenic or Wild River.
State land designated for wildlife or game management.
State designated Scenic or Wild River.
State designated Natural Areas.
Particular areas, relatively small in size, important to maintenance of unique biotic communities.
State designated areas for projection or maintenance of aquatic life[i].

---

[a]Critical habitat as defined in 50 CFR 424.02.
[b]Areas identified in State Coastal Zone Management plans as requiring protection because of ecological value.
[c]National Estuary Program study areas (Subareas within subareas) identified in Comprehensive Conservation and Management Plans as requiring protection because they support critical life stages of key estuarine species (Section 320 of Clean Water Act, as amended).
[d]Near Coastal Waters as defined in Sections 104(b)(3), 304(1), 319, and 320 of Clean Water Act, as amended.
[e]Clean Lakes Program critical areas (subareas within lakes, or in some cases entire small lakes) identified by State Clean Lake Plans as critical habitats (Section 314 of Clean Water Act, as amended).
[f]Use only for air migration pathway.
[g]Limit to areas described as being used for intense or concentrated spawning by a given species.
[h]For the air migration pathway, limit to terrestrial vertebrate species. For the surface water migration pathway, limit to terrestrial vertebrate species aquatic or semiaquatic foraging habits.
[i]Areas designated under Section 305(a) of Clean Water Act, as amended.

Table 7
Terrestrial Sensitive Environments

Terrestrial critical habitat[a] for Federal designated endangered or threatened species.
National Park.
Designated Federal Wilderness Area.
National Monument.
Terrestrial habitat known to be used by Federal designated or proposed threatened or endangered species.
National Preserve (terrestrial).
National or State Terrestrial Wildlife Refuge.
Federal land designated for protection of natural ecosystems.
Administratively proposed Federal Wilderness Area.
Terrestrial areas utilized for breeding by large or dense aggregations of animals[b].
Terrestrial habitat known to be used by State designated endangered or threatened species.
Terrestrial habitat known to be used by species under review as to its Federal designated endangered or threatened status.
State lands designated for wildlife or game management.
State designated Natural Areas.
Particular area, relatively small in size, important to maintenance of unique biotic communities.

---

[a]Critical habitat as defined in 50 CFR 42.
[b]Limit to vertebrate species.

Table 8
Area of Observed Contamination

Designated recreational area.
Regularly used for public recreation (for example, fishing, hiking, softball).
Accessible and unique recreational area (for example, vacant lots in urban area).
Moderately accessible (may have some access improvements – for example, gravel road), with some public recreation use.
Slightly accessible (for example, extremely rural area with no road improvement), with some public recreation use.
Accessible, with no public recreation use.
Surrounded by maintained fence or combination of maintained fence and natural barriers.
Physically inaccessible to public, with no evidence of public recreation use.

Table 9
Gas Containment Description

All situations except those specifically listed below.
Evidence of biogas release.
Active fire within source.
Gas collection/treatment system functioning, regularly inspected, maintained, and completely covering source.
Source substantially surrounded by engineering windbreak and no other containment specifically described in this table applies.
Source covered with essentially impermeable, regularly inspected, maintained cover.
Uncontaminated soil cover >3 feet:
    Source substantially vegetated with little exposed soil.
    Source lightly vegetated with much exposed soil.
    Source substantially devoid of vegetation.
Uncontaminated soil cover ≥ 1 foot and ≤3 feet:
    Source heavily vegetated with essentially no exposed soil.
    Cover soil resistant to gas migration[a].
    Cover soil type not resistant to gas migration[a] or unknown.
    Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration[a].
    Other.
Uncontaminated soil cover <1 foot:
    Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration[a].
    Other.
Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.
Source consists solely of intact, sealed containers:
    Totally protected from weather by regularly inspected, maintained cover.
    Other.

---

[a]Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

Table 10
Source Type

Active fire area.
Burn pit.
Containers or tanks (buried/belowground):
    Evidence of biogas release.
    No evidence of biogas release.

Containers or tanks, not elsewhere specified.
Contaminated soil (excluding land treatment).
Landfarm/land treatment.
Landfill:
    Evidence of biogas release.
    No evidence of biogas release.
Pile:
    Tailings pile.
    Scrap metal or junk pile.
    Trash pile.
    Chemical waste pile.
    Other waste piles.
Surface impoundments (buried/backfilled):
    Evidence of biogas release.
    No evidence of biogas release.
Surface impoundment (not buried/backfilled):
    Dry.
    Other.
Other types of sources, not elsewhere specified.

Table 11
Particulate Containment Description

All situations except those specifically listed below.
Source contains only particulate hazardous substances totally covered by liquids.
Source substantially surrounded by engineered windbreak and no other containment specifically described in this table applies.
Source covered with essentially impermeable, regularly inspected, maintained cover.
Uncontaminated soil cover >3 feet:
    Source substantially vegetated with little or no exposed soil.
    Source lightly vegetated with much exposed soil.
    Source substantially devoid of vegetation.
Uncontaminated soil cover ≥1 foot and ≤3 feet:
    Source heavily vegetated with essentially no exposed soil:
        Cover soil type resistant to gas migration[a].
        Cover soil type not resistant to gas migration[a].
    Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration[a].
    Other.
Uncontaminated soil cover <1 foot:
    Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration[a].
    Other.
Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.
Source consists solely of containers:
    All containers contain only liquids.
    All containers intact, sealed, and totally protected from weather by regularly inspected, maintained cover.
    All containers intact and sealed.
    Other.

[a]Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

APPENDIX E

FIELD NOTEBOOKS
FIELD BORING LOGS
DAILY FIELD REPORTS

Mead

COMPOSITION

PHYLLIS PRIMROSE

100 sheets • 200 pages
9¾ x 7½ in/24.7 x 19.0 cm
wide ruled • 09910



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1-18-94 VERY VERY Cold (two) pages

0645 Prepared trip Book TB-1 with Colonel Dehnert

0700 Arrived at base. Signed in @ Sgt Kilpatrick's. She was not in yet. Met with Colonel Dehnert. Sgt Bruce Marvin discussed locations of borings & reviewed utility map provided by Monar Johnson (Base Civil Engineering)

0745 Walked site with Sgt Marvin and located borings. Discussed what equipment needed to be moved. Also discussed location for electric pit. Sgt Marvin said by the Past Building

0815: Whitey Civil started boring locations ~~of 01BA & 01B~~ need to be relocated approximately 10 ft north of locations shown on civil plans due to proximity of overhead electric lines

0900: Met Sgt Cardinal maintenance supervisor

1/18/94 (cont)

0930: Called John Morris to discuss relocating 01-010BH + 01-011BH due to overhead lines. John approved relocating + boring ~10' N of original location.
0940: Checked on Mark with GC. Oven NOT Ready. Has only been on 10 min. Luis left for supplies. Waiting on City to come out + approve locations.
1045 Louis Luis called utility company. Rep said he came by but didn't see anyone. We were there. He didn't stop. He will come by at 1300. Instead of waiting, we decided to start drilling borings where utility lines were not present based on map from CE.
10:55: Set up on 01-001BH. Drillers setup decon pit + filled water tank from bore hydrant. Faucet broke off building when turned by bare personell to due temperature (COLD) Water in pump froze + had to thaw.
12:15: Finished setting up decon pad. Drillers went to lunch
12:20 Major Terry from 136th EN TAG verified location of boring during walk through of site.
1315 Begin drilling 01-001BH. Driller did not recover enough sample from 1-3. Had drilled to 3.5' before I could stop them.

1/19/94 Very Cold

0700 Prepared trip blank TB-2 and calibrated PID.
0745: Arrived at site. Drillers arrived at 0645 but gate was locked. Gate not unlocked until 0800.
0815: Sgt Cardinal said Base was going to set up a satellite dish near 01-007BH & decon pad. The area around the dish would be roped off & no one was to enter roped off area due to radiation hazard. Asked us to drill 01-007BH & 01-008DH first thing & relocate decon pit to beside Building 5.
0830: Discussed satellite situation w/ Whitey, Mark Lois & Hank. Don't cross line & prefer we stay as far away as possible. Sgt Cardinal said we'd be OK as long as we stayed out of roped off area. Mark E. contacted Chemron yesterday about bottles for EBs & FBs. They will be here tomorrow today at NOON.
0845: Started 01-007BH.
Collected sample from 1-3. PID = 0. Submitted 2-3 for lab analyses.
Collected sample from 6-8. Submitted 7-8 for lab analyses.

1/19/94 (cont)

0930 Completed 01-007BH. Labelled 1 drum of cuttings for 01-007BH.

0945: Took two samples to Mark for GC.

1000: Started 01-008BH.

Chief Floyd Harbison and SMS Mavrin stopped by to discuss satellite dish & location of 01-004BH, 005BH & 006BH. Satellite cable is blocking rig from ocean to these borings. Chief Harbison had Bore personnel relocate cable. Chief Harbison asked Whitey to come over & discuss how much room he would need for rig & how many tree limbs he would have to remove / trench. We moved 01-006BH south ~ 10 ft due to number of limbs. Chief Harbison received location of of borings 004, 005, 006 w / respect to utility map provided by Sgt Johnson. We want to discuss relocating with Colonel Dehnert due to sewer line parallel to fence on west side of base. Colonel D was not available. ~~Sgt Johnson~~ Chief Harbison asked that I leave map w/ him & he would discuss with Col D.

Phyllis Kent

1/19/94 (cont)

1045: Went back to rig. Lois had collected samples & PID screened. PID = Ø. He had collected samples from 1-3 and 6-8. Prepared samples from 2-3 and 7-8 for lab analyses. I logged cuttings, labelled one drum of cuttings from -008BH.

1055: Took to samples to Mark E for GC from -008BH. When we opened bag from 01-008BH we could smell a very slight odor.

1100: Went back to 008BH & instructed crew to clean area & get all equipment out of area for satellite. Got PID & took into Building 5 to connect to elect & let warm up.

1115: Satellite started. Warned personnel not to cross line.

1130 Reviewed GC work / results. Chief Harbinson came by & said 04, 05 & 06 would need to be relocated due to sewer lines & trees. Walked over to location & moved east ~ 3' ft. & Chief Harbinson approved location & said Sgt Johnson would be here at 1300 hrs.

1700 Collected & prepared ~~7~~ 8 ft trained for lab analyses. Gave Mark L-7 for ~~lab~~ GC analyses. PID = 0.

1705 - DAVID BUNN LEFT.

1723 - Prepared equipment Blank EB-1.

1740: Prepared field Blank FB-1.

1750. CLEANED SITE & Labelled drums.

1800 - Left site.

1830 = Arrived at Hotel & prepared samples for Fed Ex.

1905: Checked messages.

2000: Met w/ Whitley to discuss dogs.

2100: Stopped working.

1/19/94
(cont)

1430 - Colt completed BG-002BH.

1445 - PID Samples 0-2 = Ø; 3-5 = Ø; 6-8 = Ø.
Gave Mark 3 samples from BG-001BH + 2 Samples from BG-002BH to run on GC. Submitted 3 samples from each for lab analyses.

1500: Started 01-003BH.

1510: Collected sample from 1-3' and prepared for lab analyses.

1530: Collected sample from 6-8 and prepared for lab analyses.

1545: Took samples to mark for GC. PID 1-3' = Ø
PID 6-8 = Ø.

1600: Start 01-006BH. Collect sample from 2-3' Only 50% recovery. Sample again. Got 50% again. Prepared for lab analysis.
Collected sample from 6-8. Submitted 7-8 for lab analyses. PID - 1-2 = Ø PID = 6-7 = Ø.

1630 Completed 01-006BH.

1635 - David Burson w/ Hazway arrived.

1650 - Started 01-004BH. Collected & prepared 1-2' Sample for lab. Submitted 1-2'. Gave Mark 0-1'.
PID = Ø.

1700 Collected & prepared FB-8 for entered for lab analyses. Gave Mark E-7 for lab GC analyses. PID = 0.

1705 - DAVID BUNN LEFT.

1723 - Prepared equipment Blank EB-1.

1740: Prepared Field Blank FB-1.

1750: CLEANED SITE & Labelled drums.

1800 - Left site.

1830 = Arrived at Hotel & prepared samples for Fed Ex.

1905: Checked messages.

2000: Met w/ Whitley to discuss days.

2100: Stopped working.

COLD + RAINING

1/20/94.

0630: Prepared to do list.

0700 - Prepared trip Blank TB-3.

0745. Luis broke TPH bottle for EB-1 from yesterday. Need to call lab + tell them only four bottles were sent for EB-1 not 5.

0900 Arrived at Station. Called Surveyors. Still need to get in touch.

0815: Dario Bunn Arrived.

0830: Started 01-005BH. Collected 0-2'. Prepared 1-2 for lab. Gave 0-1 to GC. PID = Ø

0900

0890 - Collect sample from 6-8'. NO GC. PID = Ø. RAN MS/MSDS. Drillers grout hole due to rain.

0930. Completed PID cleanup + labelling.

1000: Start 01-009BH. Decided to take samples from 3 to 5' and 8 to 10' because surface is 1970's was 3' ft lower. Current surface raised w/fill material.

1030: Completed 01-009BH. Prepared two samples for lab. One sample to GC (8-10) due to 50% rec. on 3-5. PID 3-5 .. Ø PID 8-10 = 30 ppm

(cont)

1030: Started drilling through concrete on 01-010BH

1100 - Through concrete. Will sample from 2-4 & 8-10 due to fill material.

1115 Collected sample from 2-4. PID = 0. Prepared 3-4' for lab analysis.

1130 Collected sample from 8-10. Completed 01-010BH. Prep 9-10 for lab analysis. Cave Mark 2 samples for GC. PID ~3 ppm.

11:45: Gather supplies for Equipment Blank & Field Blank

12:15: Prepared EB-2.

12:30: Prepared ~~EP~~ FB-2

~~1245~~

1225: Started 01-011BH

1230: Collect sample from 1-3'. Prepared 2-3ft for lab. 1-3 for GC. PID ≠ 0

1245: 25% rec on 6-8'. Had driller redrill so I could run MS/DS.

1300: ~~Drilled to~~ Sampled 8-10'. Sample slid out of Spoon. ~~out~~ Redo!

1/20/94

1300 10-12 collected & prepd for lab analysis.
Gave Mark 3 samples for CC.
MS/MSDS on 10-12!
1320: Completed 01-011BH. Drillers leave for lunch.
1340: Called Mark H: told him to get supplies, Notebooks & Marbelyfone.
1345: Called Georgian (Surveyors) Problem w/contract. Lawyers in Houston reviewing. May not be ready for tomorrow. Will call him back at 5:00 (17:00) today. He says they already spent $500 reviewing contract.
1355 Called QTech Norma suggested getting another Survey company.
John: Paul Wheeler will be @ La Porte. John has talked w/ Ruth Lodder. Call John in the AM re: audit from Hazwrap. JM was not aware we were being audited. Also said to let Survey prob work itself out.
1400 - Prepared supply inventory
1430 - Lunch

11/21/94

Rain / Cold

0730: Left hotel.

0745: Arrived at Base

0800: Drillers Arrived. Walked base. 005BH drum needs label. Drum near decon pit needs label.

0810: Asked drillers to move drums off boring locations for surveyors.

0820: Colonel D who would fix ruts in grass. Told him that there wasn't much I could do. Tried not to damage, but due to rain & wet of rig what could I do? Told him I would like him to walk through site to address any concerns. He said Chief Harbertson would walk through in his place.

0830: So Reviewed data in conf room.

0935: Chief H said we would walk through at 10:30

[redacted]

(6) Detection limit (standard concentration) should be reduced from 1 ppm, especially during ground water investigations.

(7) Work plan says ASTM grade water will be used but OpTech is using store bought distilled water. Recommended organic free water made by a company located in San Antonio. David will provide us w/ company name at a later date.

(8) Suggested requesting copy of Hazwrap Trip Reports from ANGRC.

(9) Use field change forms to make changes to work plan

(10) Request Hazwraps SOPs from ANGRC.

1600 - Completed running GC samples, contacting Surveyors + instructing drillers on clearing.

1730 - Left Base

1/21/94

Rain / Cold

0730: Left hotel.

0745: Arrived at Base

0800: Drillers Arrived. Walked base. 005BH drum needs label. Drum near decon pit needs label.

0810: Asked drillers to move drums off boring locations for surveyors.

0825: Colonel D who would fix nuts in grass. Told him that there wasn't much I could do. Tried not to damage, but due to rain + wet of ring what could I do? Told him I would like him to walk through site to address any concerns. He said Chief Harbeson would walk through in his place.

0830: Sc Reviewed data in conf room.

0835: Chief H said we would walk through at 10:30

[redacted]

0940 : Surveyors arrived. David & Zachary. Concerned about use of laser around satellite.

0900 : Talked w/ Sgt Mann & Hoover. Laser is not a problem. Satellite is not running.

0905 : Told surveyors laser is ok.

1020 : Discussed logs from yesterday w/ Driller. Discussed to do w/ Lois. Label drums. Complete Weekly Report, expenses before going to Phoenix.

1015 : Completed Well Reports.

1020 : Walk through w/ Chief D. Asked where drums were? Moved by 007BH as directed by Col D. Concerned about nuts in grass near 04, 05 & 06, BG-001 & BG 002. Everything else looks good.

1055 : Completed walk through w/ Chief. Drill crew left site.

1100 Called office. Spoke to John M re: nuts. He said done a load of sand brought in. Can spend up to $300 PP/XX

1145: Called AAA Sand - Top Soil - sandy loam 6 yds = 130. To spread is also $130. Total is 260.00. 271-3711. I told him I would call him back.

1300 - Spoke w/ Col A. He wants sand brought in. Called AAA. They will deliver sand on Monday at 8:00 am.

1330: Surveyors left.

1400: Hand delivered personal check to Chief H. for 260.00 to pay for sand - Told him they would deliver on Monday + spread as directed by him.

1430: Left site for airport.

1530: Returned car

1700 - Caught flight

1815: Arrived at SFA.

Log of Boring 01-~~0078H~~ 008BH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitey

Date Drilled: 1/19/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0						
	12/11			OH	75%	CLAY, silty, firm, dk brnish, gry fine 1-2
	11/17	0				CLAY, stiff, tan, dry w/caliche 2-3
5				CL		
	11/13					
	13/15	20		Kau	100%	Clay, gravelly, firm, lt tan, moist
10						Boring terminated @ 8'
15						SE = 550.5
20						
25						
30						
35						

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18 FEB 1993
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Log of Boring BG-001BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitey

Date Drilled: 1/19/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0	3/3 5/5	Ø		OH	75%	CLASS SAND, loose, orangeish, brn, wet from 0 to 1.5 Clay, soft, dk brownish gray, dry from 1.5-2.0
	4/6 8/12	Ø		CL 1.0	85%	clay, soft, dk brownish gray, dry firm from 4 to 5'
5	12/40 50-1.5'	Ø		Kau	100%	Marl, hard, white, dry
				.0'?		Boring terminated @ 8'
10						
15						
20						Kau = limestone
25						Surface Elevation (SE) = 559.3
30						
35						

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18 FEB 1993
BOREMAST

Log of Boring B6-002BH

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitley

Date Drilled: 1/19/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0	2/3 5/4	ϕ		Old	75%	CLAY, soft, dk brownish gray, dry
	3/4 5/7	ϕ		CL	75%	CLAY, soft, dk brnsh gray, moist
5	5/30 50/4"	ϕ		Kau	50%	CLAY, stiff, white, dry from 6-7 MARL, hard, white, dry from 7-8
						Boring terminated @ 8'.
10						
15						SE = 558.5
20						
25						
30						
35						

~~FB 1 pg 0-1~~
FB 1

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~~MS05 6-7~~
~~7-8~~

18 FEB 1993
BOREMAST

Log of Boring 01-603BH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitey

Date Drilled: 1/19/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0	3/6					
	7/8					
	7/6	Ø		OH	75%	CLAY, SOFT, ~~DK~~ DARK BROWNISH GRAY, dry
	7/8					
5						
	4/6			CL		CLAY, SOFT, LGT ~~BLACK~~ BROWNISH GRAY, MOIST
	4/6	Ø			100%	
	8/8					
10						Boring terminated at 8'
15						556.9 = 5ft
20						
25						
30						
35						

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18 FEB 1993
BOREMAST

Log of Boring 01-006BH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitey

Date Drilled: 1/19/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0						
	3/8 10/12	Ø	1	OH	50% 83%	Clay, soft to firm, reddish brn, dry with widely scattered caliche.
5				CL		
	6/8 9/10	Ø	1-1	Kau	75%	Clay, ~~sandy~~ silty, soft to firm, lt tan, dry, w/ pyrolusite and iron staining
10						TD 8'
15						554.2 = SE
20						
25						
30						
35						

EB-2 after 6-8
FB-2

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OPERATIONAL TECHNOLOGIES CORPORATION
18 FEB 1993
BOREMAST

Log of Boring 01-004BH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitley

Date Drilled: 1/19/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0	2/3	Ø		OH	~~75%~~ 10%	CLAY, soft, dk brownish gray, ~~soft, dry moist~~
	4/5					CLAY, s.ft to firm, reddish brn, w/ws caliche.
5				CL		
	5/10	Ø		Kau	100%	clay, silty, soft to firm, lt tan, dry, w/pyrdusk and iron staining.
	8/8					
10						TD 9'
15						SE = 554.2
20						
25						
30						
35						

EB-2
FB-2

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
18 FEB 1993
BOREMAST

Log of Boring 01-00SBH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitley

Date Drilled: 1/20/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0	2/3	∅		Clt	50%	Clay, soft, reddish-brn, moist
	4/6					
5				CL		
	4/4	∅		Kau	100%	Clay, soft, tannish yellow, moist
	4/5					
10						Boring terminated @ 8.0'
15						SE = 553.7
20						
25						
30						
35						

OPTECH MSDS-1-3
OPERATIONAL TECHNOLOGIES CORPORATION
16 FEB 1993
BOREMAST

Log of Boring 01-009BH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitley

Date Drilled: 1/20/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0						GRASS
				FILL		FILL
	7/12 14/14	ϕ		OH	50%	clay, soft to firm, reddish brn, dry
5				CC		
	10/12 13/15	3		Kau	100%	CLAY, firm, mottled yellow and white, dry, w/caliche
10						Boring terminated @ 10'
15						SE = 551.5
20						
25						
30						
35						

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
18 FEB 1993
BOREMAST

Log of Boring 01-010BH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitley

Date Drilled: 1/20/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0						CONCRETE
				FILL		FILL
	7/8	Ø			100	CLAY, firm to stiff, mottled tan & yellow, dry, with scattered caliche
	13/22			Kau		
5						
	6/10	Ø				Clay, firm, mottled tan & yellow, moist, w/caliche
	12/14					
10						Boring terminated @ 10 Ft
15						
20						SE = 550.25
25						
30						
35						

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
16 FEB 1993
BOREMAST

Log of Boring 01-001BH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitey

Date Drilled: 1/18/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0						ASPHALT + BASE
	N	Ø		OH	30%	CLAY, Firm, black, dry
5	5/10 11/12	Ø		CL	75%	CLAY, Firm, brn, dry mottled yellow to white from 4.5 to 5.5'
	9/26 50/4"	10		Kau	100%	Marl, hard, white, dry
10						Boring terminated at 8'
15						
20						Kau = Cretaceous Austin Chalk
25						SE = 557.29
30						
35						

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
15 FEB 1993
BOREMAST

Log of Boring 01-002 B14

254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller:

Date Drilled: 1/18/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0						GRASS
	2/6 8/9	Ø		OH	25%	CLAY, soft, Black, dry (Rudist), w/roots and widely Scattered caliche
5	5/6 10/13	Ø		CL	75%	CLay, soft, brn, dry, from 4 to 5 CLAY, firm, lt brn, dry, w/ws caliche from 5 to 6
	3/5 15/49	Ø		Kau	95%	Marl, hard, white, dry
10						Boring terminated at 8'
15						SE = 557.0
20						
25						
30						
35						

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
18 FEB 1993
BOREMAST

Log of Boring 01-~~2066H~~ 007BH
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitey

Date Drilled: 11/19/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0						CLAY
	4/8			OH		CLAY, soft, dk brn gray, dry from 0-1.5
	11/14	0			75	clay, firm, mottled tan & brn, dry from ~~2.3~~ 2.5-3.0
5				CL		
	8/13					SAND, slightly clayey, tan, v. fgr., moist from 6 to 7
	13/17	0		Kau	100	CLAY, very gravelly, firm, tan, wet from 7 to 8
10						Boring terminated @ 8'
15						551.6 = SE
20						
25						
30						
35						

EB-1
E3-2

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
16 FEB 1993
BOREMAST

Log of Boring 01-0118H
254th CCG and 221st CCS
Texas Air National Guard
Garland Air National Guard Station
Garland, Texas

Project No.: 1315-109
Logged By: Phyllis Primrose
Drilling Co.: Jones Environmental Drilling, Inc.
Driller: Whitley

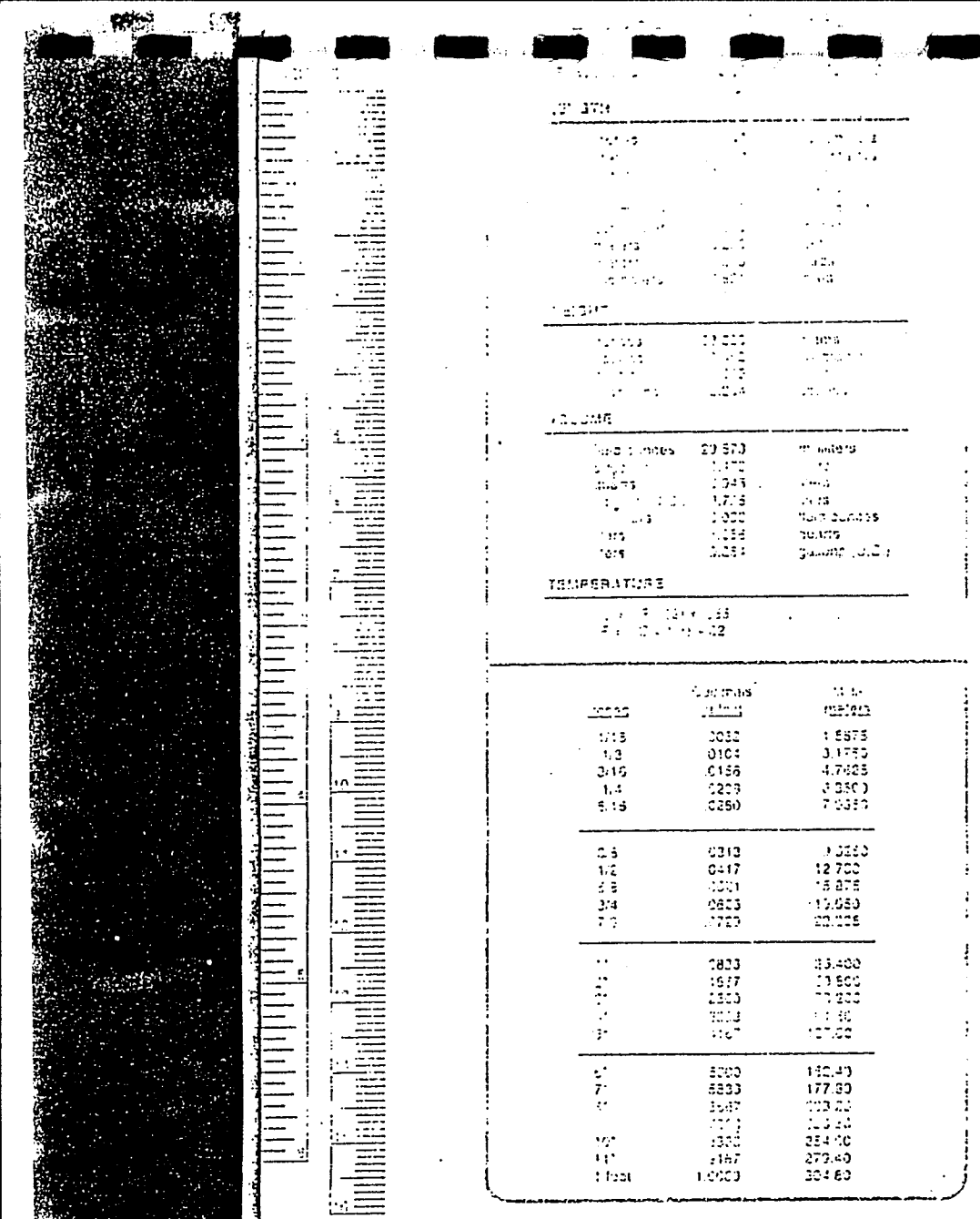
Date Drilled: 1/20/94
Drilling Method: Hollow Stem Auger
Sampling Method: California-Style Sampler
Inclination: Vertical

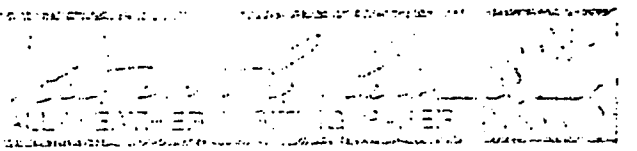
Depth (ft.)	Blows/6"	(PID) Field Headspace (PPM)	Samples	Graphic	% Recovery	Description
0						
	5/6 9/16	Ø		OH	75%	clay, soft, dk grayish brn, moist
5				CL		
	6/9 13/19	Ø			25%	clay, firm to stiff, mottled tan & yellow, dry with scattered caliche.
	6/8 14/20			Kau		
10	6/12 18/20	Ø			75%	clay, ~~firm~~, mottled tan & yellow; dry, with caliche
						Boring terminated @ 12'
15						
20						SE = 550.68
25						
30						
35						

EB-3
EB-3 after 6-8

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
18 FEB 1993
BOREMAST

~~MS/05 6-8~~
MS/05 6-8





Name MARK ESCOBAR
OPTEC

Address 4100 NW LOOP 410 SUITE230
SAN ANTONIO, TEXAS 78229

Phone 731-0000

Project GARLAND AIR
NATIONAL GUARD BASE
SITE INVESTIGATION

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1/18/94 GARLAND ANGST

0715: ARRIVE ON BASE AND GREETED BY ALL BASE PERSONNEL.

0820: REVIEWED WHERE ALL BORINGS WERE TO BE PLACED AND OTHER ADJUSTMENTS DISCUSSED.

0900 GAS CHROMATOGRAPH ROOM WAS ASSIGNED AND SET-UP WAS BEGUN.

1045 GC SET-UP IS COMPLETE AND CALIBRATION STARTED. WORKING STANDARD BEING DEVELOPED.

WORKING STANDARD PREPARATION

$$C = \frac{SV}{WV} \times SC$$

C = Working Standard Concentration (ppm) = 1 ppm

SV = Volume of Stock Standard (ul)

WV = Volume of DI water in microliter (ul)

SC = Stock Standard Concentration. (In ppm)

(1 ppm to reach)

$C = \frac{5\text{ ul}}{10\text{ ul}} \times$ (2 ppb) or (2000 ppm)

$C = \frac{5\text{ ul}}{5\text{ ul}} \Rightarrow C = 1$ ppm Working Standard

1214 ... Standard Recalibrated and Gain Adjusted.

1250 Calibration Rerun

1247 Calibration Rerun due to Internal Temp Adjustment

1/10/94

1259 RERAN STANDARD DUE TO NO HIT ON ETHYLBENZENE GAIN ADJUSTED FROM 3 TO 2.

1317 RERAN STANDARD DUE TO NO HIT ON ETHYLBENZENE. ADJUSTED GAIN FROM 2 TO 3 AND ADJUSTED FLOW RATE FROM 15 TO 14 cc/MIN.

1325 RERAN STANDARD DUE TO NO HIT ON ETHYLBENZENE.

1330 STOPPED RUN WHEN ETHYLBENZENE WAS NOT DETECTED. ADJUSTED GAIN FROM 3 TO 2.

1337 RERAN STD. STILL NO HIT ON ETHYLBENZENE. ADJUSTED FLOW RATE STILL TO 14 cc/MIN BUT BALL WAS JUMPY ON FLOWMETER.

1355 ALL PEAKS DETECTED ON STANDARD. (BTEX)

1425 RAN ~~STANDARD~~ (ME) STANDARD AGAIN TO TEST PEAKS DETECTED.

1437 RAN BLK - BUT DID NOT CALIBRATE STANDARD. HAVE TO RETRUN

AIR BLANK = NO HITS
- 40°C (OVEN TEMP)
- 26° = INTERNAL TEMP.
- 34 g = WEIGHT OF VIAL W/ DI H2O

1448 RAN STANDARD AGAN TO RECALIBRATE

1527 STANDARD FINALLY PEAKED W/ ADJUSTED LIBRARY - READY TO ANALYZE SAMPLES, RECALIBRATED TO BENZENE.

1618 RAN SAMPLE 01-001BH 1-3"
- 01-001BH 1-3 FT.
- SAMPLE RESULTS = CLEAN
- TEMP OF OVEN = 40°C
- GC AMBIENT TEMP = 26°C
- 34 g = WEIGHT OF VIAL W/ DI H2O
- 44 g = WEIGHT OF VIAL W/ DI H2O AND SOIL.
- 10g of ACTUAL WEIGHT OF SOIL.

1629 RAN SAMPLE 01-0018H 3.5-4.5

- 01-0018H 3.5-4.5
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- GC AMBIENT TEMP = 26°C
- 34 g = WEIGHT OF VIAL W/ DI H_2O
- 44 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF ACTUAL SOIL

1638 RAN BLANK

- BLANK (AIR)
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- GC AMBIENT TEMP = 26°C
- ~~34 g = WEIGHT~~ ME

1648 RAN SAMPLE 01-0018H 6-7'

- 01-0018H 6-7'
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- GC AMBIENT TEMP = 26°C
- 34 g = WEIGHT OF VIAL W/ DI H_2O
- 44 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF ACTUAL SOIL

1629 RAN SAMPLE 01-001BH 3.5-4.5

- 01-001BH 3.5-4.5
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- GC AMBIENT TEMP = 26°C
- 34 g = WEIGHT OF VIAL W/ DI H_2O
- 44 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF ACTUAL SOIL

1638 RAN BLANK

- BLANK (AIR)
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- GC AMBIENT TEMP = 26°C
- ~~34 g - WEIGHT~~ (ME)

1648 RAN SAMPLE 01-001BH 6-7

- 01-001BH 6-7
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- GC AMBIENT TEMP = 26°C
- 34 g = WEIGHT OF VIAL W/ DI H_2O
- 44 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF ACTUAL SOIL

1/18/94

1715	SHUT DOWN GC AND HELP DECON SUPPLYS.
1730	LEFT BASE TO HOTEL
1830	PREPARED FED-EX SHIPMENT PREPARATION FOR CHEMRON LABS IN SAN ANTONIO.

Mark Escalera 1/18/94

1/19/94 GARLAND ANG SI

0830 ARRIVED ON BASE

0845 SET-UP GC AND WORKING STANDARD PREPARATION.

WORKING STANDARD PREP

$$C = \frac{SV}{WV} \times SC$$

C = WORKING STANDARD CONC. (1 ppm)

SV = VOLUME OF STOCK STANDARD (ul)

WV = VOLUME OF DI WATER IN MICROLITER (ul)

SC = STOCK STANDARD CONC. (ppm)

$$C = \frac{5\,ul}{10\,ul} \times (2\,ppb) \text{ or } (2000\,ppm)$$

$$C = \frac{5\,ul}{5\,ul} \Rightarrow C = 1\,ppm \text{ WORKING STANDARDS}$$

0908 RAN INITIAL STANDARD AND SET UP LIBRARY

1/19/94

0919 RAN STANDARD AGAIN AND ADJUSTED GAIN FROM 10 to 5 to GIVE BETTER PEAKS.
- GC RESULTS | BENZENE = 1000 ppm
TOLUENE = 1000
ETHYLBENZENE = 1000
M/P-XYLENE = 1000
O-XYLENE = 1000
- 34S = WEIGHT OF VIAL W/ 10 ml OF DI H_2O AND 5 µl of BTEX
- GC OVEN TEMP = 40°C / AMB. TEMP = 22

0935 RAN INITIAL AIR BLANK TO TEST BEFORE SAMPLING RUNS BEGIN
- GC RESULTS = CLEAN
- TEMP OF GC = 40°C (OVEN)
- AMBIENT TEMP = 22°C

0947 RAN SAMPLE 01-002BH 0-1"
- 01-002BH 0-1
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- AMBIENT TEMP = 23°C
- ~~46~~ MB 36S = WEIGHT OF VIAL W/ DI H_2O
- 46S = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10S = WEIGHT OF SOIL

1/19/94

0954 REPLACED PLUNGER ON 100 ul SYRINGE FOR BETTER WITHDRAWL AND TENSION. DECON W/ METHANOL AND AIR DRY.

1001 RAN BLANK TO VERIFY CLEAN SYRINGE W/ NEW PLUNGER.
- AIR BLANK
- GC RESULTS = CLEAN BENZENE = 139 PPM
- TEMP. OF GC OVEN = 40°C
- GC AMBIENT TEMP = 23

1010 RERAN AIR BLANK TO VERIFY HIT ON BENZENE.
- AIR BLANK
- GC RESULTS = CLEAN
- TEMP. OF GC OVEN = 40°C
- GC AMBIENT TEMP = 23°C

1014 RERAN AIR BLANK AGAIN
- AIR BLANK
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- GC AMBIENT TEMP = 24°C

* RUN STOPPED AT 189.7 SEC.

1/19/94

1025 RE-RAN STANDARD DUE TO NOT CALIBRATING THE STANDARD TO BENZENE PEAK.

GC RESULTS = BENZENE = ~~1000~~ 1100
TOLUENE = 22.8
ETHYLBENZENE = 1000
M/P-XYLENE = —
O-XYLENE = —

GC OVEN TEMP = 40°C

GC AMBIENT TEMP = 24°C

1030 CALIBRATED STANDARD TO ETHYLBENZENE PEAK BY MISTAKE AND DECIDED TO RUN STANDARD AGAIN AND RECALIBRATE.

1041 RAN STANDARD AND RECALIBRATED TO BENZENE PEAK.

GC RESULTS = BENZENE = 1,000 ppb
TOLUENE = 1000
ETHYLBENZENE = 1000
M/P-XYLENE = 1000
O-XYLENE = 1000

GC OVEN TEMP = 40°C

GC AMBIENT TEMP = 24°C

1/19/94

1055 RAN AIR BLANK
- GC RESULTS = CLEAN
- TEMP OF GC OVEN = 40°C
- GC AMBIENT TEMP = 24°C

1116 RAN SAMPLE 01-002BH 0-1'
- 01-002BH 0-1
- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 24°C
- 36 g = WEIGHT OF VIAL W/ DI H_2O
- 46 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF SOIL

1127 RAN AIR BLANK
- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 24°C

1136 RAN SAMPLE 01-002BH 3-4'
- 01-002BH 3-4'
- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 24°C
- 34 g = WEIGHT OF VIAL W/ DI H_2O
- 44 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF SOIL.

1/19/94

1145 RAN AIR BLANK
- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 24°C

1154 RAN SAMPLE 01-0028H 6-7'
- 01-0028H 6-7'
- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 25°C
- 34 g = WEIGHT OF VIAL W/ DI H_2O
- 44 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF SOIL.

1208 RAN NEW STANDARD FOR NEW BOREHOLE 007 AND RECALIBRATED.
- GC RESULTS = BENZENE = 1 ppm
  TOLUENE = 1 ppm
  ETHYLBENZENE = 1 ppm
  m/p XYLENE = 1 ppm
  o XYLENE = 1 ppm
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 24°C

1219 RAN AIR BLANK
- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 25°C

1/19/94

1230 RAN SAMPLE 01-007BH 1-2

- 01-007BH 1-2
- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 25°C
- 34 g = WEIGHT OF VIAL W/ DI H_2O
- 44 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF SOIL

1239 RAN BLANK (AIR)

- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 25°C

1300 RAN SAMPLE 01-007BH 6.5-7.5

- 01-007BH 6.5-7.5
- GC RESULTS = CLEAN
- GC OVEN TEMP = 40°C
- GC AMBIENT TEMP = 25°C
- (mg) 34 g (mg) = WEIGHT OF VIAL W/ DI H_2O
- 44 g = WEIGHT OF VIAL W/ DI H_2O AND SOIL
- 10 g = WEIGHT OF SOIL.

1300-1330 LUNCH AND WENT TO PICK-UP CONTAINERS FOR EQ BLANKS / FIELD BLKS AT THE HOLIDAY INN.

1/19/94

1500 SHUT-OFF GC to ~~me~~ (me)
HELP IN SAMPLE
COLLECTION AND PREPARATION
FOR FEOBX - 010 SITES
01-004BH AND LEFT BASE
AT 1800. (AND 01-003BH
BG-001BH
BG-002BH)

1800 OFF-BASE

1/19/94 Mark Escobar

OpTech

DAILY FIELD REPORT

Project Name: Garland

Date 1/20/94 Page 1 of 1

1. Project Number: 1315-109
2. Site Manager: Phyllis Primrose
3. Site Telephone Numbers: (214) 276-0521 (Station/Base)
   (214) 341-5400 (Hotel)
   _____ (Cellular)
4. OpTech Team:
   Phyllis, Mark E. and Louis I.
5. Work Completed:
   ① Completed borings 01-005BH, -009BH, -010BH, and -011BH
   ② Submitted 19 samples to Chemron including 2 EBs & 2 FBs and 2 MS/MSDs.
   ③ Ordered sand for ruts as ord by John Morris.
   ④ Cleaned Site.
6. Deviations From Work Plan:
   Add: Purchased Sand for Ruts from rig in grass ($260.00).
7. Site Visitors:
   David Bunn - HAZWRAP

John Morris
210 731-0008

OpTech

DAILY FIELD REPORT

Project Name: GARLAND ANGS

Date 1/19/94 Page 1 of 1

1. Project Number: 1315-109
2. Site Manager: Phyllis Primrose
3. Site Telephone Numbers: (214) 276-0521 (Station/Base)
   214 341-5400 (Hotel)
   ~~(214) 341-5400~~ (Cellular)
4. OpTech Team:
   Phyllis, Mark E., Louis I.
5. Work Completed:
   ① Completed 01-007BH, -008BH, 003BH, 006BH, 0041BH, and BG-001BH + -002BH.
   ② Submitted 19 samples to Chemron including TB, FB, + EB.
6. Deviations From Work Plan:
   ~1.5 hrs lost due to relocating decon pad upon Halton request.
7. Site Visitors:
   David Bunn - HazWrap; Major Perry

OpTech

DAILY FIELD REPORT

Project Name: Garland

Date 1/12/94 Page 1 of 1

1. Project Number: 1315-109
2. Site Manager: Phyllis Primrose
3. Site Telephone Numbers: (214) 276-0521 (Station/Base)
   (214) 341-5400 (Hotel)
   _____ (Cellular)
4. OpTech Team:
   Phyllis, Mark E. and Louis I.
5. Work Completed:
   ① Completed borings 01-005BH, -009BH, -010BH, and -011BH
   ② Submitted 19 samples to Chemron including 2 EBs + 2FBs and 2 MS/MSDs.
   ③ Ordered sand for ruts as dtd by John Morris.
   ④ Cleaned Site.
6. Deviations From Work Plan:
   Added Purchased Sand for Ruts from rig in grass ($260.00).
7. Site Visitors:
   David Bunn - HAZWRAP